

National Levee Database

(NLD)

User Manual: Federal User

Version 3.0

Prepared by

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1. Preface

The National Levee Database (NLD) is a web-based application created to assist in the dissemination of levee data. The NLD was created by the United States Army Corps of Engineers (USACE) and serves as the single source of national flood damage control structures. The purpose of the NLD is to provide a common database and database structure to allow all USACE Districts and all other levee owners the ability to share and manage levee information in one common location and one common data structure for Federal Government users, including the USACE and the Federal Emergency Management Agency (FEMA) and non-federal users including state and local governments, Association of State Dam Safety Officers (ASDSO), the National Association of Flood & Stormwater Management Agencies (NAFSMA), and the general public.

This user manual is targeted for Federal and other authenticated users and designed to:

1. Provide an overview of the National Levee Database
2. Provide detailed instructions on how to leverage capabilities available in the NLD (e.g., reporting and mapping interfaces)
3. Improve usage of the NLD tool to improve risk communication, provide transparency and improve outreach

The document will help orient the users to leverage the following NLD capabilities:

1. Getting Started: How to access the tool, prerequisites, etc.
2. Reports: How to view, customize, save and export reports
3. Maps: How to utilize the mapping capabilities
4. Feedback: How to submit and view feedback

2. Getting Started

The Getting Started section provides you with instructions on how to access the NLD.

2.1 Technical Requirements

The NLD is a web-based tool which requires an Internet connection, without the need to install any software. The initial release of the NLD has been designed for and tested within Internet Explorer version 8 and 9 and Mozilla Firefox. Other internet browsers should work as well, but are considered unsupported.

To use the NLD, you will need:

1. A computer with an Internet connection
2. Internet Explorer or Mozilla Firefox
3. The NLD can be accessed via the following web site address: <http://nld.usace.army.mil>
4. Basic levee information can be accessed from the NLD without needing a user name and password. Users who require access to additional information may request account access and privileges in the NLD. Account access can be requested by sending an email to DLL-CEERD-NLD-General-Support@usace.army.mil or calling 1-877-LEVEEUS (1-877-538-3387). User accounts will be adjudicated by NLD stakeholders. You will receive an email notification regarding your account request

2.1.1 Launching the NLD

Launching the NLD involves opening an Internet browser and directing the browser to the NLD web site: <http://nld.usace.army.mil>

2.1.2 Launching Internet Explorer Browser

Since the NLD is a web-based application, you must first launch your internet browser, either Internet Explorer or Mozilla Firefox. There are a number of ways to do this; three of the more common methods are outlined below.

Method 1: Double-click the “Internet Explorer” shortcut icon on the desktop.



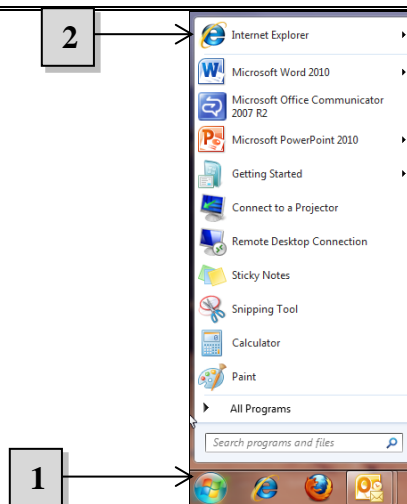
Figure 2.1.2-1: Internet Explorer Desktop Shortcut

Method 2: Click the “Internet Explorer” or “Firefox” icon in the quick launch menu.



Figure 2.1.2-2: Quick Launch Menu

Method 3: Select Internet Explorer from the Start menu.

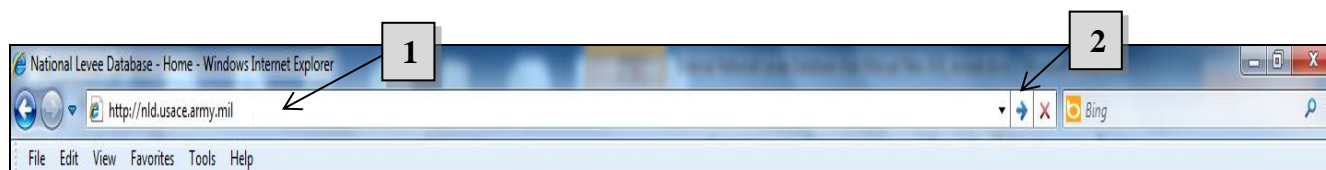
**Figure 2.1.2-3: Start Menu**

1. Click the “Start” icon
2. Use your mouse to choose Internet Explorer

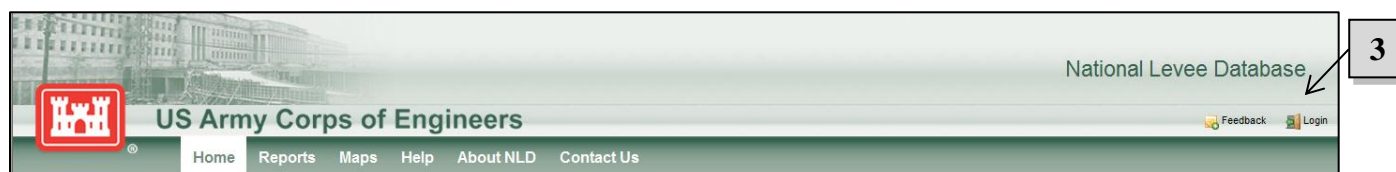
2.1.3 Navigating to the NLD

Once the browser window has launched, navigate to the NLD home screen by typing in <http://nld.usace.army.mil> as depicted in

Figure 2.1.3-1: Internet Explorer Address Bar.

**Figure 2.1.3-1: Internet Explorer Address Bar**

1. Enter the appropriate URL in the address bar
2. Click the “Enter” key on the keyboard or click the “Go” button to the right of the address in the browser

**Figure 2.1.3-2: NLD Login**

3. Click the “Login” link to authenticate your user account

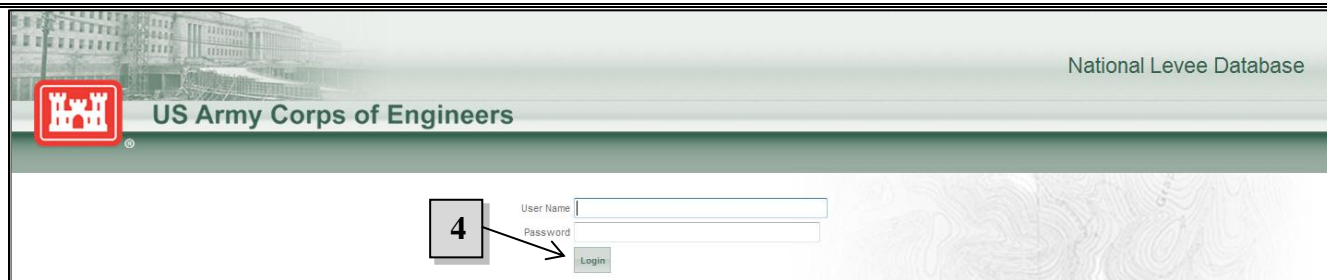
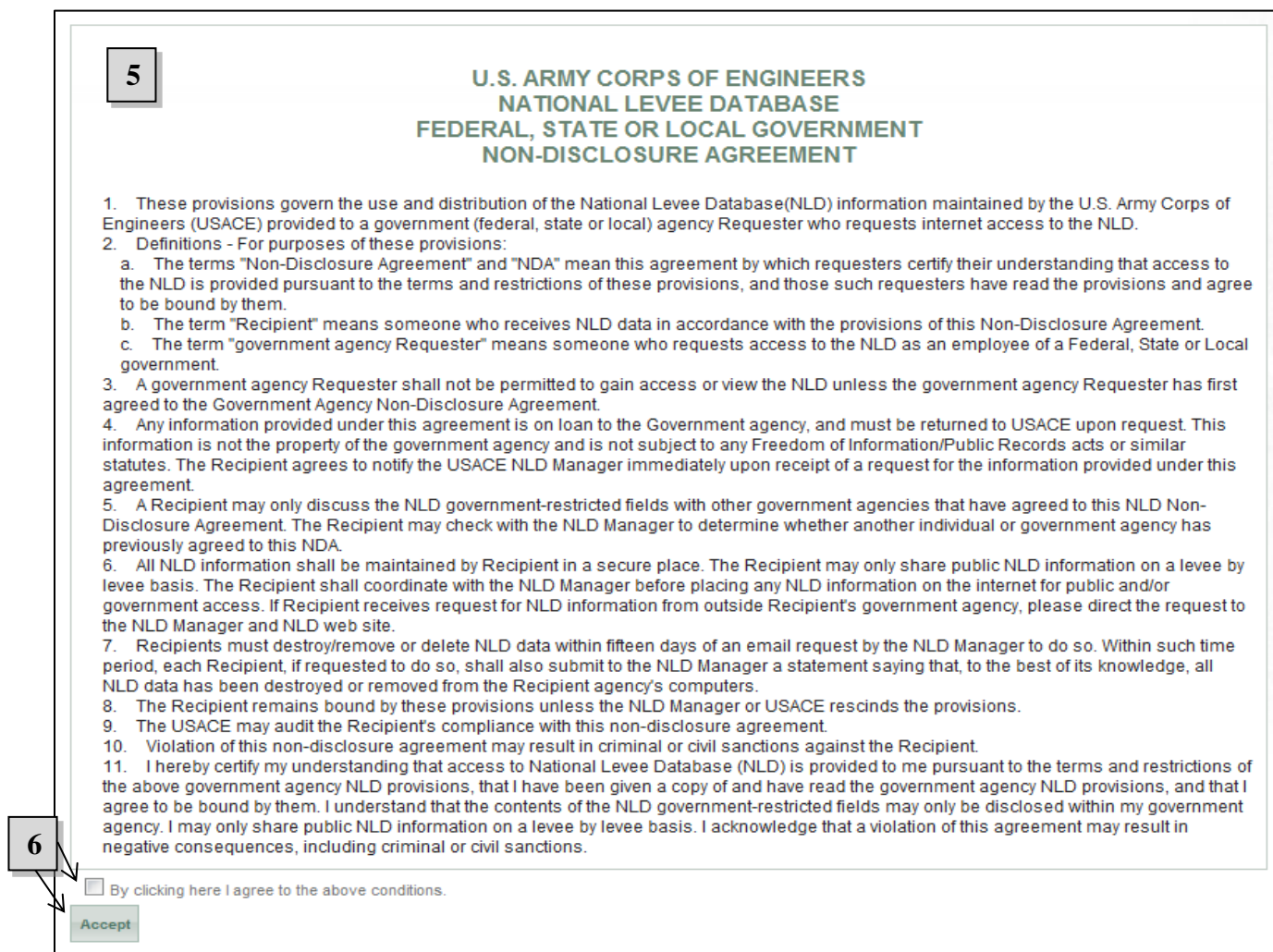


Figure 2.1.3-3: NLD Authentication

4. Enter your username and password and click “Login”

Note: When a user selects to Login to the NLD, the web address updates to a secure address: <https://nld.usace.army.mil>



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**U.S. ARMY CORPS OF ENGINEERS
NATIONAL LEEVE DATABASE
FEDERAL, STATE OR LOCAL GOVERNMENT
NON-DISCLOSURE AGREEMENT**

1. These provisions govern the use and distribution of the National Levee Database(NLD) information maintained by the U.S. Army Corps of Engineers (USACE) provided to a government (federal, state or local) agency Requester who requests internet access to the NLD.
2. Definitions - For purposes of these provisions:
 - a. The terms "Non-Disclosure Agreement" and "NDA" mean this agreement by which requesters certify their understanding that access to the NLD is provided pursuant to the terms and restrictions of these provisions, and those such requesters have read the provisions and agree to be bound by them.
 - b. The term "Recipient" means someone who receives NLD data in accordance with the provisions of this Non-Disclosure Agreement.
 - c. The term "government agency Requester" means someone who requests access to the NLD as an employee of a Federal, State or Local government.
3. A government agency Requester shall not be permitted to gain access or view the NLD unless the government agency Requester has first agreed to the Government Agency Non-Disclosure Agreement.
4. Any information provided under this agreement is on loan to the Government agency, and must be returned to USACE upon request. This information is not the property of the government agency and is not subject to any Freedom of Information/Public Records acts or similar statutes. The Recipient agrees to notify the USACE NLD Manager immediately upon receipt of a request for the information provided under this agreement.
5. A Recipient may only discuss the NLD government-restricted fields with other government agencies that have agreed to this NLD Non-Disclosure Agreement. The Recipient may check with the NLD Manager to determine whether another individual or government agency has previously agreed to this NDA.
6. All NLD information shall be maintained by Recipient in a secure place. The Recipient may only share public NLD information on a levee by levee basis. The Recipient shall coordinate with the NLD Manager before placing any NLD information on the internet for public and/or government access. If Recipient receives request for NLD information from outside Recipient's government agency, please direct the request to the NLD Manager and NLD web site.
7. Recipients must destroy/remove or delete NLD data within fifteen days of an email request by the NLD Manager to do so. Within such time period, each Recipient, if requested to do so, shall also submit to the NLD Manager a statement saying that, to the best of its knowledge, all NLD data has been destroyed or removed from the Recipient agency's computers.
8. The Recipient remains bound by these provisions unless the NLD Manager or USACE rescinds the provisions.
9. The USACE may audit the Recipient's compliance with this non-disclosure agreement.
10. Violation of this non-disclosure agreement may result in criminal or civil sanctions against the Recipient.
11. I hereby certify my understanding that access to National Levee Database (NLD) is provided to me pursuant to the terms and restrictions of the above government agency NLD provisions, that I have been given a copy of and have read the government agency NLD provisions, and that I agree to be bound by them. I understand that the contents of the NLD government-restricted fields may only be disclosed within my government agency. I may only share public NLD information on a levee by levee basis. I acknowledge that a violation of this agreement may result in negative consequences, including criminal or civil sanctions.

☐ By clicking here I agree to the above conditions.

6 **Accept**

Figure 2.1.3-4: NLD NDA

5. Upon successful login to the NLD, the user will view a Non-Disclosure Agreement (NDA)
6. Check the box “By clicking here I agree to the above conditions” and click “Accept”

2.2 Navigation

To access the site without a login, use the public web address above (http), located in section 2.1. If a login is needed, follow the instructions defined in section 2.1 Technical Requirements (step 4). This user manual will outline the capabilities and functionalities of the Federal or authenticated user access in the National Levee Database.

Once you have navigated to the NLD you will view the NLD Home screen. Before we introduce the details of this screen it is important to understand the overall layout of the NLD site.

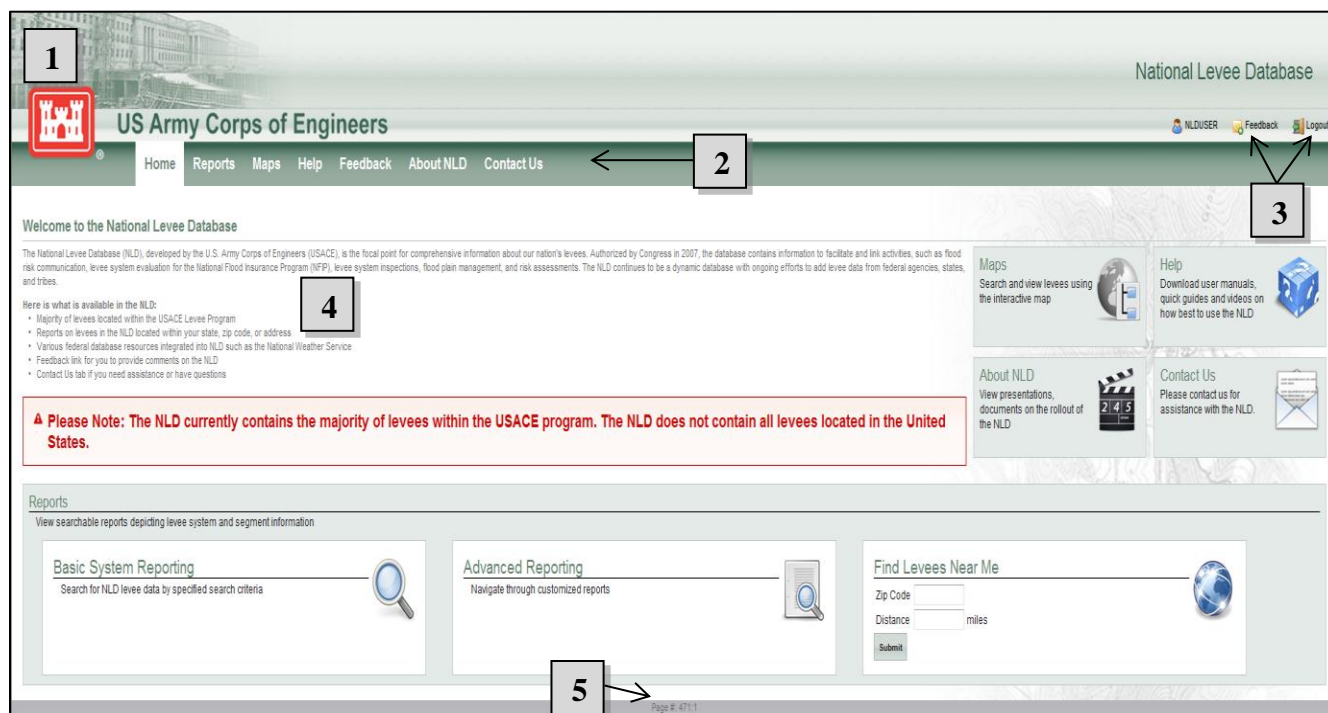


Figure 2.2-1: NLD Site Layout

There are five primary components of the NLD site:

1. **Banner** – Every screen in the NLD Tool will include the banner. You will see the NLD logo and title of the tool. The banner is static throughout the entire tool and you can use any of its links and buttons from anywhere within the tool
2. **Navigation Toolbar** – The banner includes the navigation toolbar. There are six modules accessible from the navigation tool bar. These modules include: Home, Reports, Maps, Help, About NLD and Contact Us. This tool bar will be available for you to navigate the tool from any module. No matter where you are located in the tool if you click on one of these links you will be directed to one of the six modules
3. **Feedback & Login** – These buttons provide the user the ability to provide feedback on the tool and for those with an adjudicated account, the ability to login to the tool
4. **Primary Content Region** – When items on the navigation toolbar are selected this section of the web page is the primary location where content will be displayed. For instance, if you click “Home” on the navigation toolbar you will view the Welcome screen
5. **Page ID/Number** – Found at the bottom of each of the NLD web pages, you will notice a number. This number is unique for each screen

3. Home

3.1 Home Portal

The NLD Home screen provides a portal-like view to provide users quick-link buttons to navigate the NLD from one central location. In addition to the quick-link buttons, there are associated tabs displayed on the screen at the top, left corner of the web page. The “Home” tab contains an introductory welcome message, from here you may click on the different tabs or quick-link buttons to navigate through the application. An explanation for each tab and quick-link button is listed below.

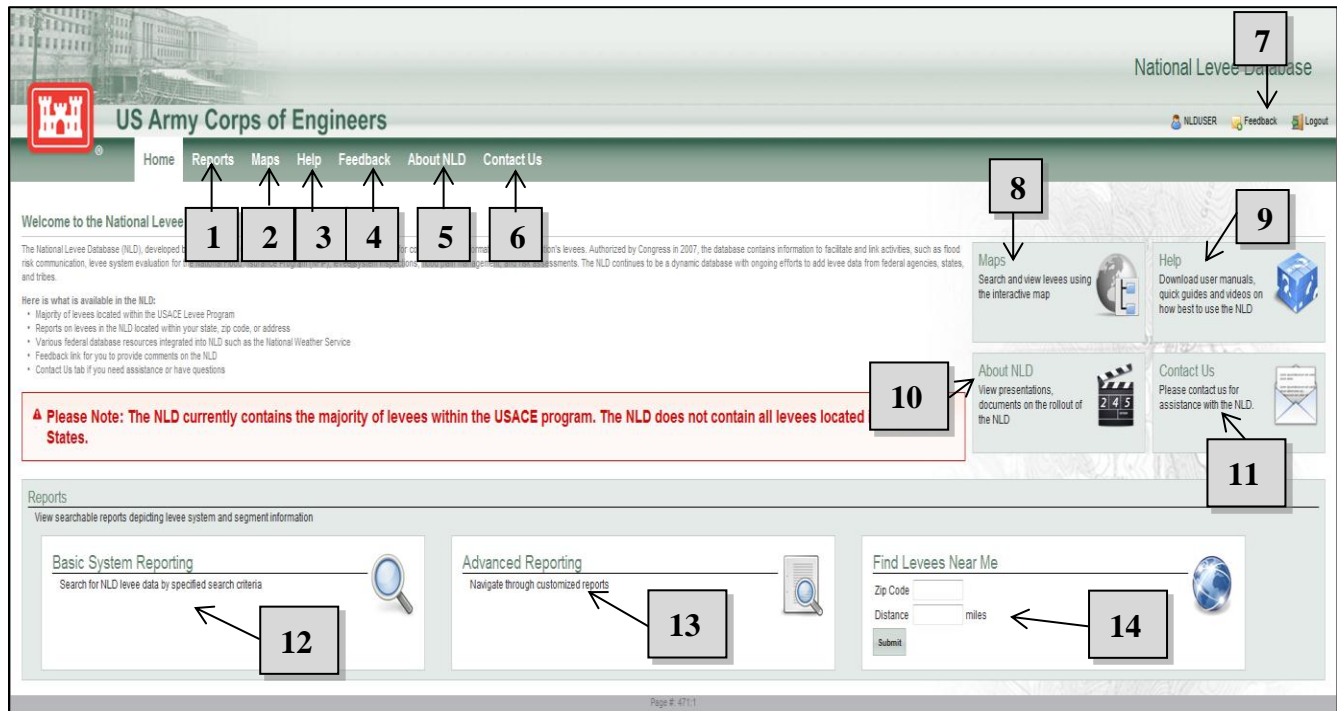


Figure 3.1-1: The “Home” Tab

- Reports (1): Allows users to navigate to the Report Store. The Report Store provides multiple options for users to search, navigate and review levee data within the NLD
- Maps (2 and 8): Allows users to search and view levees using the interactive map
- Help (3 and 9): Provides users access to documentation, including: downloadable user manuals, quick guides and video tutorials
- Feedback (4 and 7): Allows users to provide feedback and recommendations to improve the NLD
- About NLD (5 and 10): Provides users information regarding the roll-out of the NLD to include: state, federal and public events
- Contact Us (6 and 11): Provides email and phone contact information to request assistance from the NLD help desk

- Basic System Reporting (quick-link button) (12): Allows users to navigate directly to the Basic System Reporting tool
- Advanced Reporting (quick-link button) (13): Allows users to navigate directly to the Advanced Reports
- Find Levees Near Me (quick-link button) (14): Allows users to search for levees in the NLD within a specified distance from a given zip code

The subsequent sections detail the capabilities available for each of the navigation items highlighted above.

4. Reports

4.1 Navigating to Reports

The “Reports” tab is the second tab available on the NLD navigation toolbar.

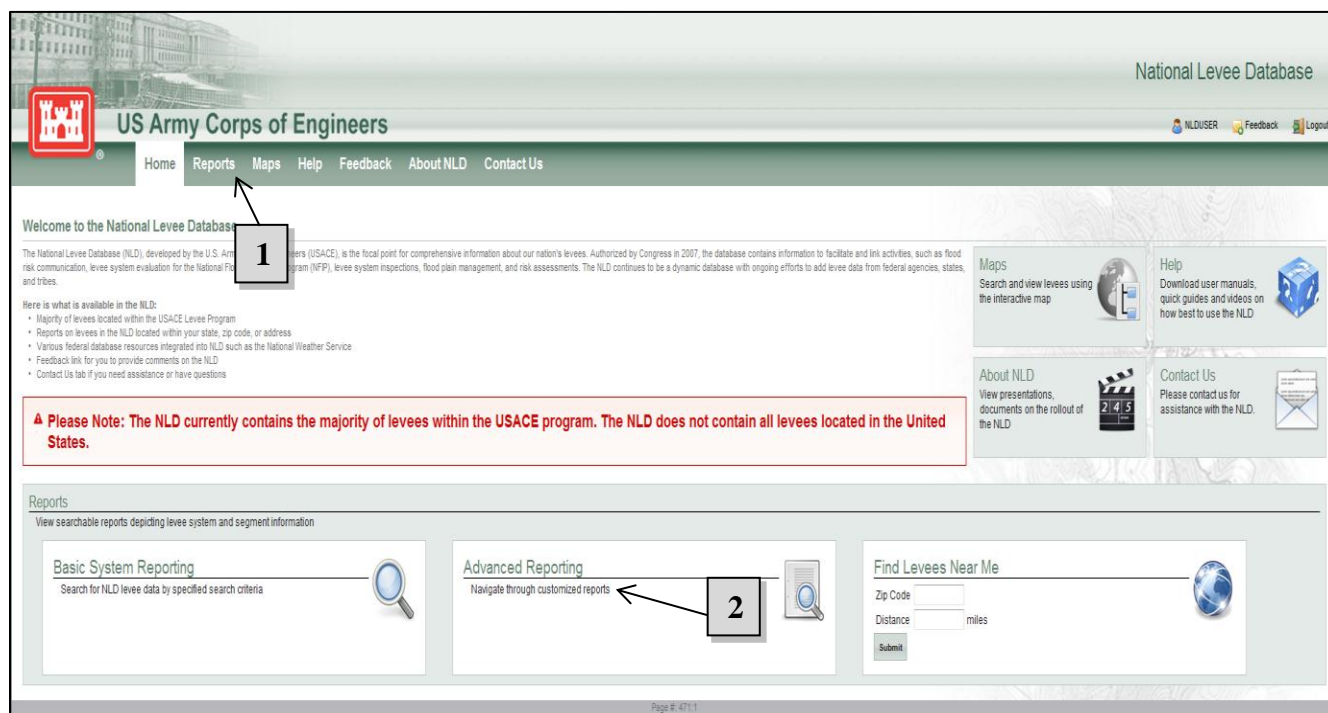


Figure 4.1-1: Reports Tab

1. Click on the “Reports” tab to navigate to the interactive map
2. Clicking the “Advanced Reporting quick-link” button will also navigate to the interactive map

By clicking on the “Reports” tab you will be taken to the Report Store screen shown below in Figure 4.2-1: Report Store.

4.2 Report Store

The Report Store allows you to choose which method you would like to search and view reports with four easily navigable options, as seen in Figure 4.2-1: Report Store.



Figure 4.2-1: Report Store

1. Click the “Basic System Reporting” icon to search for NLD levee data by predetermined search criteria
2. Click the “Advanced Reporting” icon to navigate through customized reports
3. Click the “Map Query Reporting” icon to search for a specific location or levee feature on the map to query in order to view levee data
4. Click the “Find Levees Near Me” icon to easily enter a zip code and distance in which to search for levees

4.3 Basic System Reporting

Basic System Reporting interface allows a quick and easy search for NLD levee data by specified search criteria such as: State, County, FEMA region, Organization, PAL status (Provisionally Accredited Levee), Authorization Category, and RIP status (Rehabilitation and Inspection Program).

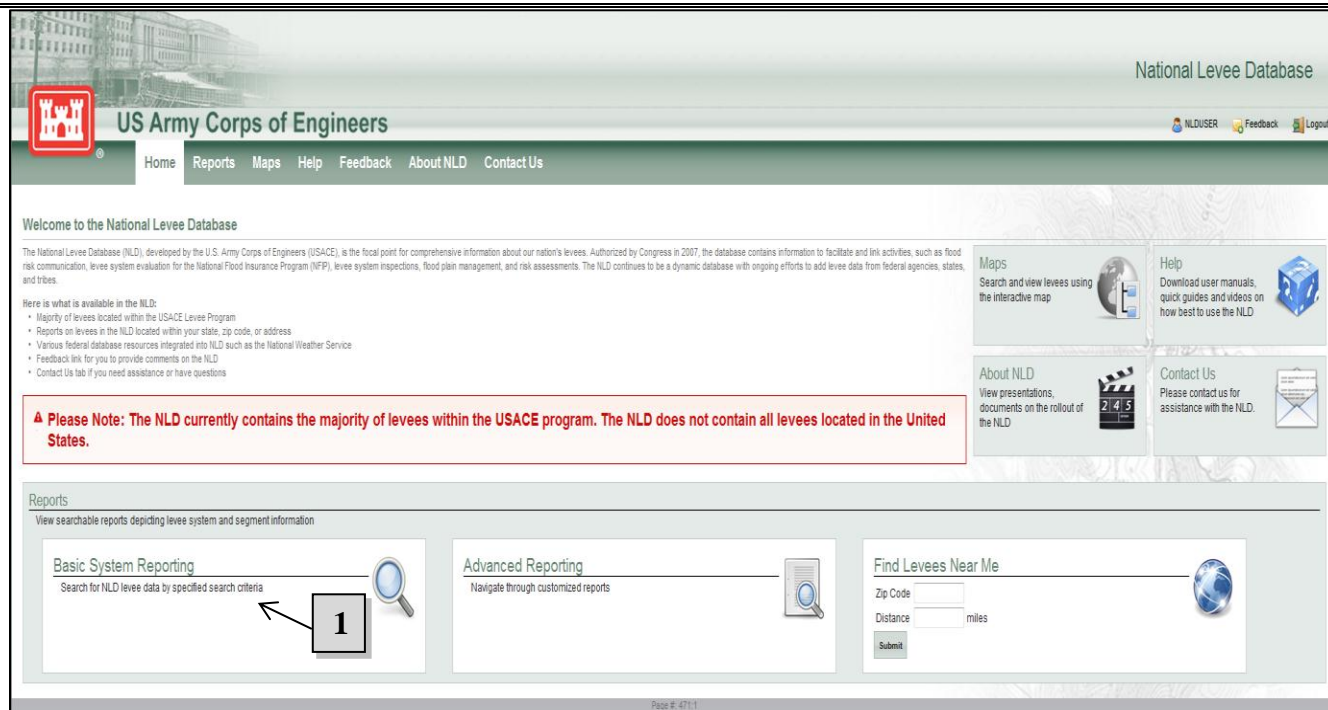


Figure 4.3-1: Basic System Reporting

1. Click the “Basic System Reporting quick-link” button to search for NLD data by predetermined search criteria

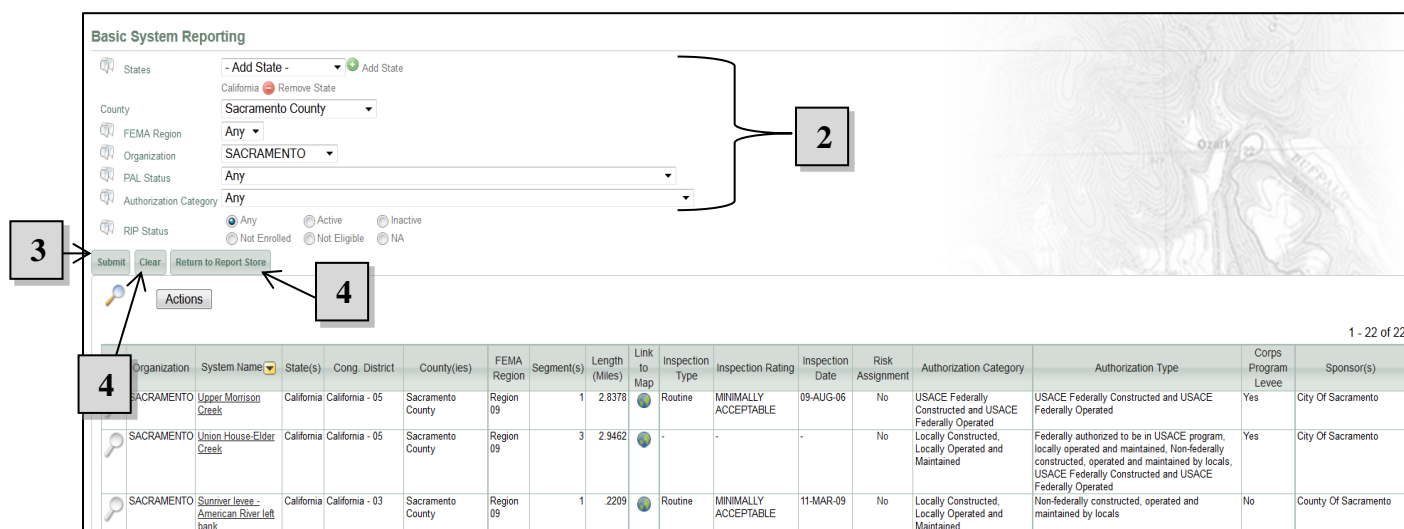


Figure 4.3-2: Basic System Reporting

2. Use the dropdowns to specify State, County, FEMA Region, Organization, PAL Status, and Authorization Category. Use the radio buttons to select a RIP Status. To select the State, you need to press the green “+” icon. After selecting and adding a State, a County dropdown will appear to further define your search
3. Click the “Submit” button to view results
4. Click the “Clear” button to clear the search criteria and run a new report
5. Click the “Return to Report Store” button to view Report Store reporting options

4.4 Advanced Reporting

The Advanced Reporting screen allows the user to create a more customizable report. View the Interactive Reports Primer to learn about the different reports and advanced reporting features, or choose a report to view and customize, as seen in Figure 4.4-2: Advanced Reporting.

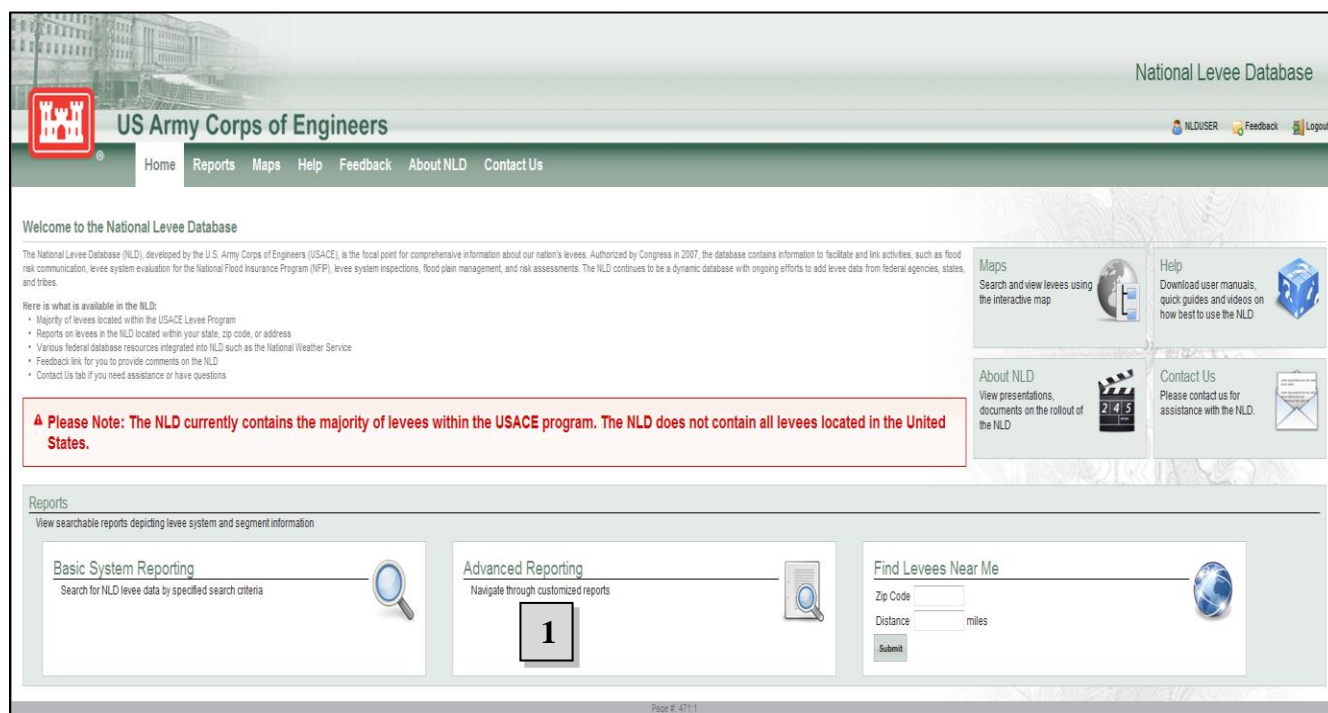



Figure 4.4-1: Advanced Reporting

1. Click the “Advanced Reporting quick-link” button to navigate through customized reports



US Army Corps of Engineers

Home Reports Maps Help Feedback About NLD Contact Us

Advanced Reporting

Interactive Reports Primer - Guide for using NLD Reports

[Return to Report Store](#)

Category ☒ ☐

Category : 1 System

Report Link	Summary	Report Name	Help
Levee System Fact Sheet	Report to provide levee information relevant to authorizations with ties to the Recovery Act	Levee System Fact Sheet	Data Included
DHS Levee Prioritization	Report that provides DHS with relevant levee information by levee system	DHS Levee Prioritization	Data Included
NLD Media	Media information for systems, segments and features	NLD Media	Data Included
System Feature	Quantity of levee features by levee system	System Feature	Data Included
Leveed Area Consequence Assessment	Assessment of potential impact to buildings, structures, and vehicles (numbers and value) by levee system	Leveed Area Consequence Assessment	Data Included
System Detail	Report providing specific details of each levee system by organization	System Detail	Data Included

Category : 2 Segment

Report Link	Summary	Report Name	Help
Segment Feature	Quantity of levee features by levee segment	Segment Feature	Data Included
Segment Detail	Report providing specific details of each levee segment by organization	Segment Detail	Data Included

Category : 3 Authorization

Report Link	Summary	Report Name	Help
Authorization Detail	Report providing specific details of each levee authorization by organization	Authorization Detail	Data Included

Category : 4 Inspection and Flooding

Report Link	Summary	Report Name	Help
System Inspection	Inspection information (date, rating, file and results) per levee system	System Inspection	Data Included
Flood Event	Flood Event Report	Flood Event	Data Included
Segment Inspection	Inspection information (date, rating, file and results) per levee segment	Segment Inspection	Data Included
National Inspection	Levee numbers, miles, and systems rated acceptable, minimally acceptable, and unacceptable by organization	National Inspection	Data Included

1 - 13

Figure 4.4-2: Advanced Reporting

4.4.1 Interactive Reports Primer

The Interactive Reports Primer is a PowerPoint briefing that provides an introduction to the “Interactive Reports” functionality within the NLD.

US Army Corps of Engineers

Home Reports Maps Help Feedback About NLD Contact Us

Advanced Reporting

Interactive Reports Primer - Guide for using NLD Reports

Return to Report Store

Category: 1 System

Report Link	Summary	Report Name	Help
Levee System Fact Sheet	Report to provide levee information relevant to authorizations with ties to the Recovery Act	Levee System Fact Sheet	Data Included
DHS Levee Prioritization	Report that provides DHS with relevant levee information by levee system	DHS Levee Prioritization	Data Included
NLD Media	Media information for systems, segments and features	NLD Media	Data Included
System Feature	Quantity of levee features by levee system	System Feature	Data Included
Leveed Area Consequence Assessment	Assessment of potential impact to buildings, structures, and vehicles (numbers and value) by levee system	Leveed Area Consequence Assessment	Data Included
System Detail	Report providing specific details of each levee system by organization	System Detail	Data Included

Category: 2 Segment

Report Link	Summary	Report Name	Help
Segment Feature	Quantity of levee features by levee segment	Segment Feature	Data Included
Segment Detail	Report providing specific details of each levee segment by organization	Segment Detail	Data Included

Category: 3 Authorization

Report Link	Summary	Report Name	Help
Authorization Detail	Report providing specific details of each levee authorization by organization	Authorization Detail	Data Included

Category: 4 Inspection and Flooding

Report Link	Summary	Report Name	Help
System Inspection	Inspection information (date, rating, file and results) per levee system	System Inspection	Data Included
Flood Event	Flood Event Report	Flood Event	Data Included
Segment Inspection	Inspection information (date, rating, file and results) per levee segment	Segment Inspection	Data Included
National Inspection	Levee numbers, miles, and systems rated acceptable, minimally acceptable, and unacceptable by organization	National Inspection	Data Included

1 - 13

Figure 4.4.1-1: Advanced Reporting, Interactive Reports Primer

1. Click on the hyperlink titled “Interactive Reports Primer.” The “File Download” pop-up will display as shown in Figure 4.4.1-2: File Download

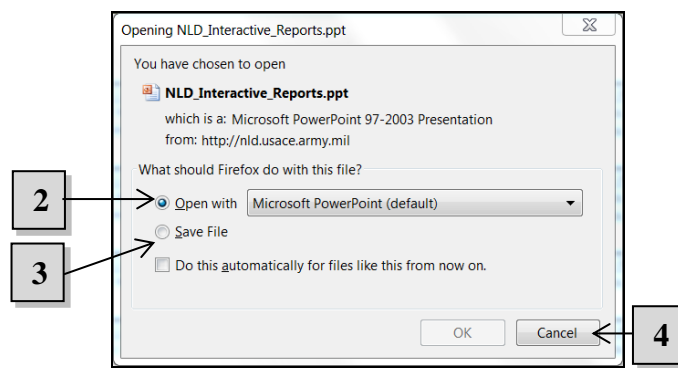


Figure 4.4.1-2: File Download

2. Click the “Open” radio button to open the file and save to a temporary location on your computer

3. Click the “Save” button to save the document to a specific location on your computer
4. Click the “Cancel” button to return to the Advanced Reporting screen (Figure 4.4.1-1: Advanced Reporting)

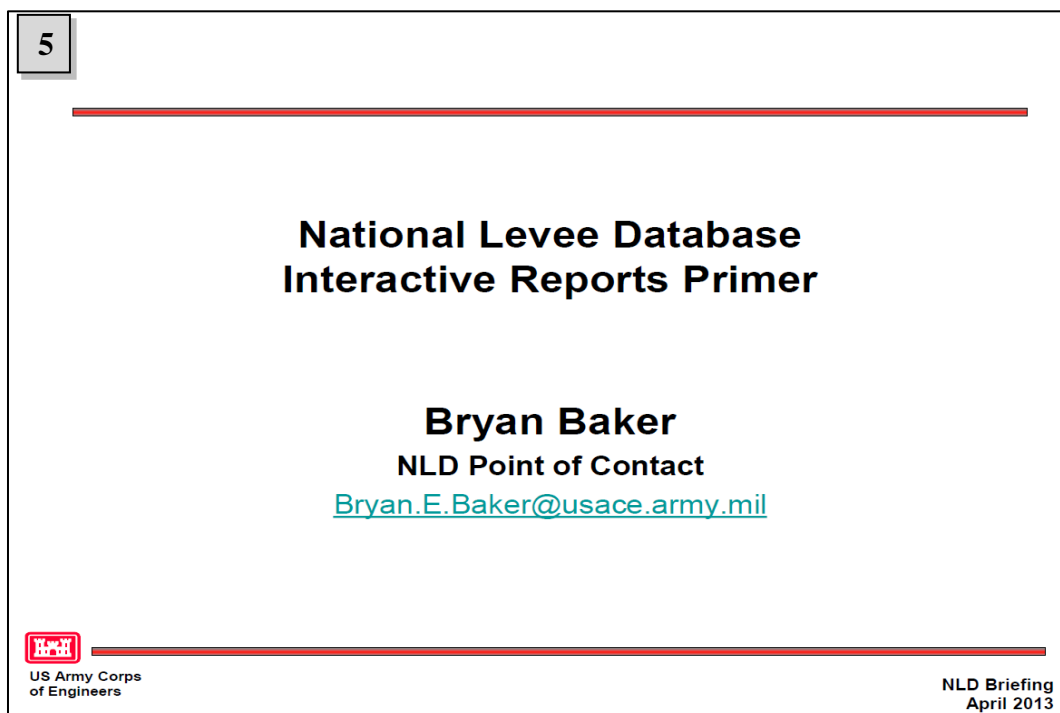


Figure 4.4.1-3: Interactive Reports Primer PowerPoint Presentation

5. The PowerPoint briefing will open in a new web browser window. We highly recommend that you peruse this document to become better acquainted with the full reporting functionality

4.4.2 Selecting a Report

The reports area of the tool includes a number of predefined reports. Currently there are 12 reports as detailed below:

Advanced Reporting
Interactive Reports Primer - Guide for using NLD Reports

[Return to Report Store](#)

Category: ☒ System ☐ Segment ☐ Authorization ☐ Inspection

Report Link	Summary	Report Name	Help
Leveed Area Consequence Assessment	Assessment of potential impact to buildings, structures, and vehicles (numbers and value) by levee system	Leveed Area Consequence Assessment	Data Included
System Detail	Report providing specific details of each levee system by organization	System Detail	Data Included
DHS Levee Prioritization	Report that provides DHS with relevant levee information by levee system	DHS Levee Prioritization	Data Included
NLD Media	Media information for systems, segments and features	NLD Media	Data Included
System Feature	Quantity of levee features by levee system	System Feature	Data Included
Levee System Fact Sheet	Report to provide levee information relevant to authorizations with ties to the Recovery Act	Levee System Fact Sheet	Data Included
Category : 2 Segment			
Segment Detail	Report providing specific details of each levee segment by organization	Segment Detail	Data Included
Segment Feature	Quantity of levee features by levee segment	Segment Feature	Data Included
Category : 3 Authorization			
Authorization Detail	Report providing specific details of each levee authorization by organization	Authorization Detail	Data Included
Category : 4 Inspection			
System Inspection	Inspection information (date, rating, file and results) per levee system	System Inspection	Data Included
Segment Inspection	Inspection information (date, rating, file and results) per levee segment	Segment Inspection	Data Included
National Inspection	Levee numbers, miles, and systems rated acceptable, minimally acceptable, and unacceptable by organization	National Inspection	Data Included

1 - 12

Figure 4.4.2-1: Advanced Reports

1. **Leveed Area Consequence Assessment:** Report providing assessment data of potential impact to buildings, structures, and vehicles (numbers and values) by levee system
2. **System Detail:** Report providing specific details of each levee system by organization
3. **DHS Levee Prioritization:** Report providing DHS with levee information relevant to them by levee system
4. **NLD Media:** Report providing media information for systems, segments, and features
5. **System Feature:** Report providing quantity of levee features (i.e. gravity drains, pump stations relief wells, boreholes, etc.) by levee system
6. **Levee System Fact Sheet:** Report providing levee information relevant to authorizations with ties to the Recovery Act
7. **Segment Detail:** Report providing specific details of each levee segment by organization
8. **Segment Feature:** Report providing quantity of levee features (gravity drains, pump stations, relief wells, boreholes, etc.) by levee segment
9. **Authorization Detail:** Report providing specific details of each levee project by organization
10. **System Inspection:** Report providing inspection information (date, rating, file, and results) per levee system
11. **Segment Inspection:** Report providing levee inspection information (date, rating, file, results) by levee segment
12. **National Inspection:** Report providing levee numbers, miles and systems rated acceptable, minimally acceptable, and unacceptable by organization
13. **Flood Event:** Report providing flood event information

By clicking on a report link, in this case Segment Detail report, you will be taken to the report view shown below in Figure 4.4.2-2: View Report.

National Levee Database

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Segment Detail Report

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Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L64 East	3404000135	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L63 South East	3404000136	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 02	Puerto Rico - 98	Ponce Municipio	Bucana East	Bucana Upper East	3404000139	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.4.2-2: View Report

4.5 Interactive Reporting Tools

NLD reports are fully customizable. You have the ability to create your own custom reports and save them in the system. All columns are customizable so that you may search, organize, filter, summarize and save the data using the interactive reporting tool features. These tools can be accessed by selecting the column headings and also from the “Actions” button, which provides additional search and display features.

The basic functions of the interactive reporting tool include the following:

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Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L64 East	3404000135	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L63 South East	3404000136	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 02	Puerto Rico - 98	Ponce Municipio	Bucana East	Bucana Upper East	3404000139	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5-1: View Report

1. Search (Magnifying Glass): Allows you to search and filter by a keyword within a specific column. For a complete list of columns, see Figure 4.5.1-1: Search
2. Go: Allows you to submit request to search the NLD and display search results based upon the search criteria entered
3. Actions button: Allows you to customize the report to your liking. Options include Select Columns, Filter, Rows Per Page, Sort, Control Break, Highlight, Compute, Aggregate, Chart, Group By, Save Report, Reset, Help and Download

4.5.1 Search

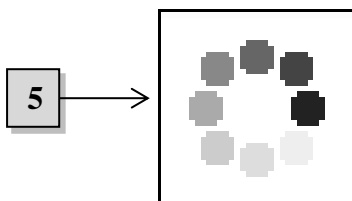
The “Search” feature allows you to search and filter the report for a specific keyword or value within the report.

Figure 4.5.1-1: Search

Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L64 East	3404000135	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L63 South East	3404000136	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC JACKSONVILLE Region 02	Puerto Rico - 98 Ponce Municipio	Bucana East	Bucana Upper East	3404000139	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.1-1: Search

1. Click on the “magnifying glass” icon, a list of columns will display
2. Select a column name to search and filter the report by
3. Insert search criteria (keyword or value) in the search box
4. Click the “Go” button to submit the search. When the system is loading, it will display a symbol in the center top of the screen to notify you of its current status as shown in
5. Figure 4.5.1-2: Loading Symbol

**Figure 4.5.1-2: Loading Symbol**



- ### 4.5.2 Actions Menu

The Actions Menu contains many tasks that are useful in manipulating an Interactive Report. All Interactive

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Segment Detail Report

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Division	Organization	FEMA Region	Cong. District	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	0 and L-12	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	L65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	L64 East	3404000135	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	L63 South East	3404000136	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 02	Puerto Rico - 98	Bucana East	3404000139	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.2-1: Actions Menu Functions.

4.5.2.1 Select Columns

The “Select Columns” option in the actions menu allows you to reorder/modify the columns displayed in a report.

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Division	Organization	FEMA Region	Cong. District	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	0 and L-12	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	L65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	L64 East	3404000135	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	L63 South East	3404000136	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 02	Puerto Rico - 98	Bucana East	3404000139	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.2-1: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Select Columns,” a new region will display as shown below in

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

3. Figure 4.5.2-2: Actions Menu - Select Columns

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.2-2: Actions Menu - Select Columns

4. Click on a column name (i.e. “PAL Status”) in the “Do Not Display” table. The column name will become highlighted (Note: You can also click on a name in the “Display in Report” Column)

5. Click the “single arrow” icon to move it over to the “Display in Report” table. The arrow pointing right will move the column to the “Display in Report” table and vice versa
6. To move all columns to one side or the other, click the “double arrows” icon
7. Click the “Cancel” button to reset
8. Click the “Apply” button to have your desired column settings displayed

4.5.2.2 Filtering Option

The “Filter” option allows you to modify the report query through the use of Oracle operators and/or expressions.

The screenshot displays the 'Segment Detail Report' interface of the National Levee Database. At the top, there is a header with the US Army Corps of Engineers logo and navigation links (Home, Reports, Maps, Help, Feedback, About NLD, Contact Us). Below the header, the 'Segment Detail Report' section includes a search bar and a 'Go' button. The 'Actions' menu is open, showing various options: Select Columns, Filter, Rows Per Page, Format, Save Report, Reset, Help, and Download. The main table lists segments with columns: Division, Organization, FEMA Region, Cong. District, Segment Name, FC Segment ID, Sponsor(s), Design Frequency, FEMA Accreditation Date, State(s), Risk Assignment, Authorization Type, Corps Program Levee, and Design Flow. The table shows several rows of data, including segments in South Atlantic, Jacksonville, Region 04, Florida - 23, and Region 02, Puerto Rico - 98. Numbered callouts 1, 2, and 3 point to the 'Actions' button, the 'Filter' option, and the 'Rows Per Page' option respectively.

Figure 4.5.2-3: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Filter.” A new filter region will display as shown below in Figure 4.5.2-4: Actions Menu – Filter
3. Click on “Rows Per Page” to select the number of rows to display on each report page (all reports will default to a view of 50 rows per page)

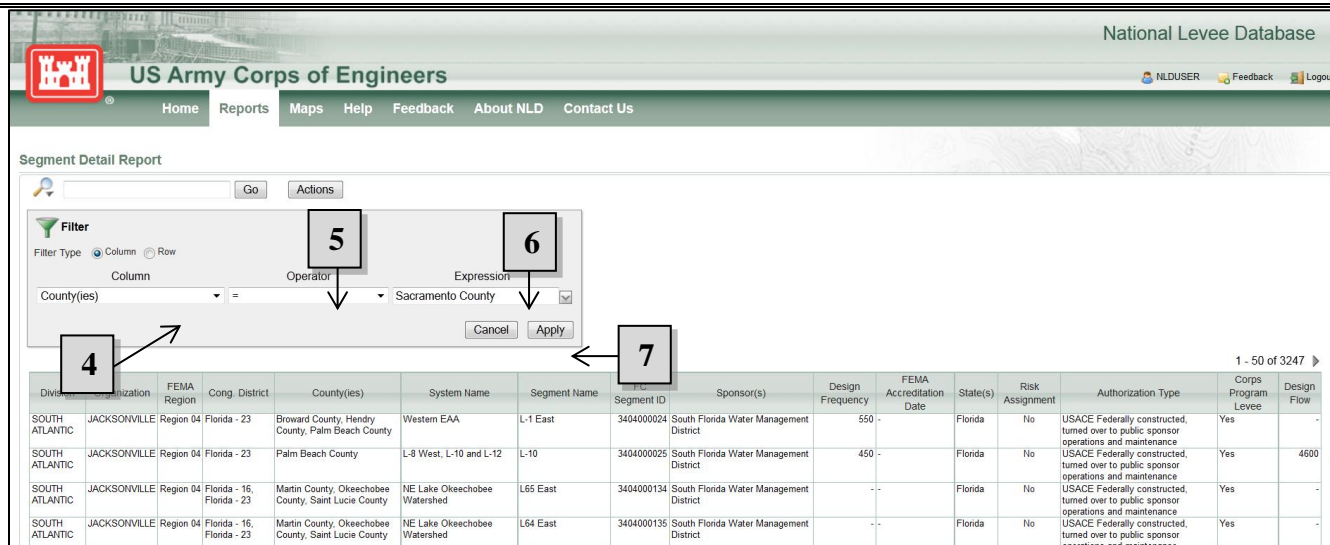


Figure 4.5.2-4: Actions Menu – Filter

4. Select a column by clicking on the “Column” dropdown list
5. Select an operator by clicking on the “Operator” dropdown list
6. Select an expression by clicking on the “Expression” dropdown list or type your own expression into the field
7. Click the “Apply” button. Results are filtered. You can apply multiple filters to the report view, enable or disable them by checking them on or off, and remove them if necessary (see steps 8-9 under Figure 4.5.1-3: Display Criteria)

4.5.2.3 Sort

The “Sort” option in the actions menu allows you to arrange the columns in a report.

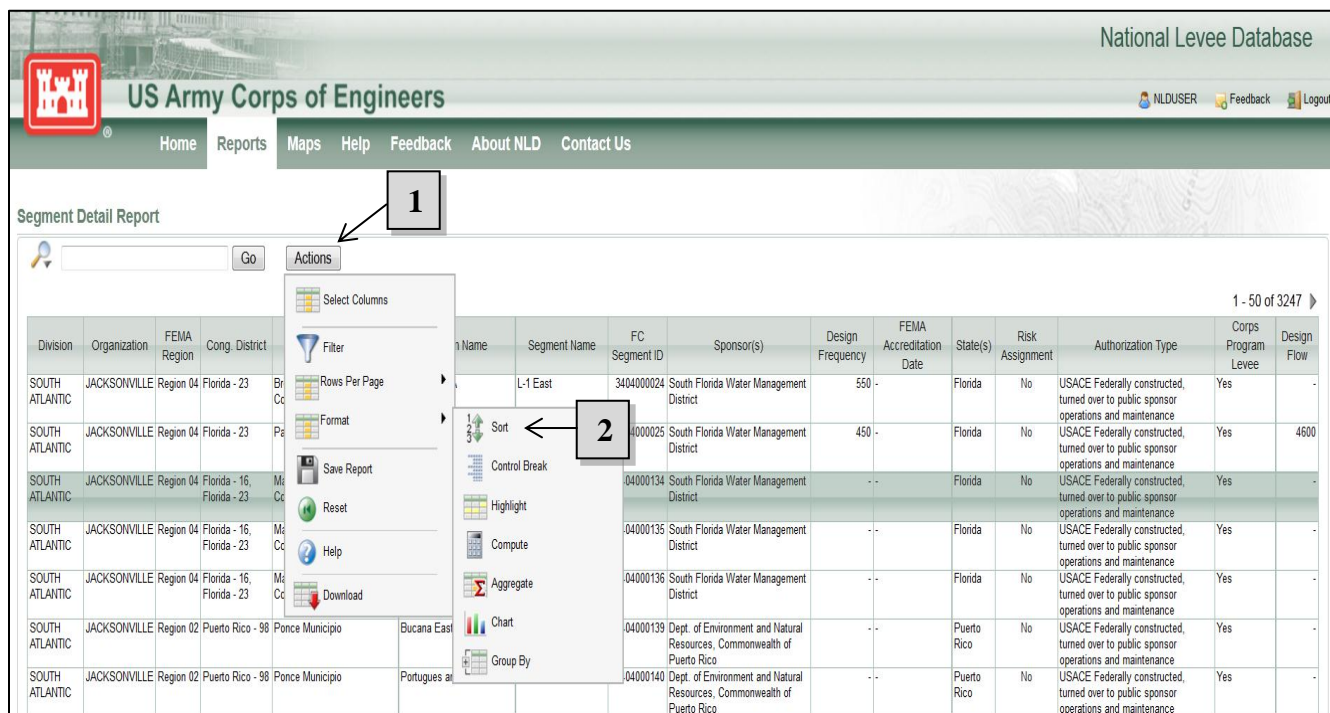


Figure 4.5.2-5: Advanced Search Options

1. Click on the “Actions” button
2. Click on “Format” > “Sort.” A new sort region will display as shown below in

Segment Detail Report

Sort

Column	Direction	Null Sorting
1 - Select Column -	Ascending	Default
2 - Select Column -	Ascending	Default
3 - Select Column -	Ascending	Default
4 - Select Column -	Ascending	Default
5 - Select Column -	Ascending	Default
6 - Select Column -	Ascending	Default

Cancel Apply

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Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L-65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

3. Figure 4.5.2-6: Actions Menu - Sort

Segment Detail Report

Sort

Column	Direction	Null Sorting
1 - Select Column -	Ascending	Default
2 - Select Column -	Ascending	Default
3 - Select Column -	Ascending	Default
4 - Select Column -	Ascending	Default
5 - Select Column -	Ascending	Default
6 - Select Column -	Ascending	Default

Cancel Apply

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Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L-65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.2-6: Actions Menu - Sort

4. Click on dropdown arrow in the Columns box to change columns to sort
5. Click the dropdown arrow in the Direction box to sort the reports in ascending or descending order
6. Click the dropdown arrow in the Null Sorting box to determine where you want your null results to populate
7. Click the “Apply” button (you also have the choice of clicking the “Cancel” button)

4.5.2.4 Control Break

The “Control Break” option in the actions menu allows you to organize the data by grouping results into sections.

The screenshot shows the 'Segment Detail Report' interface. The 'Actions' menu is open, and the 'Control Break' option is highlighted. The table below shows the data being displayed.

Division	Organization	FEMA Region	Cong. District	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Broward County, Hendry County, Palm Beach County	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 02	Puerto Rico - 98	Ponce Municipio	Bucana East	04000139	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 02	Puerto Rico - 98	Portuguesa Municipio	Portuguesa	04000140	Dept. of Environment and Natural Resources, Commonwealth of Puerto Rico	-	-	Puerto Rico	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.2-7: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Format” > “Control Break.” A new control break region will display as shown below in

The screenshot shows the 'Segment Detail Report' interface with the 'Control Break' dialog box open. The dialog box has a table with 6 columns and 6 rows, all with 'Enabled' status. The 'Apply' button is highlighted.

Column	Status
1 - Select Column -	Enabled
2 - Select Column -	Enabled
3 - Select Column -	Enabled
4 - Select Column -	Enabled
5 - Select Column -	Enabled
6 - Select Column -	Enabled

The table below shows the data being displayed.

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L65 East	3404000134	South Florida Water Management District	-	-	Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

3. Figure 4.5.2-8: Actions Menu - Control Break

Segment Detail Report

Control Break

Column	Status
1 - Select Column -	Enabled
2 - Select Column -	Enabled
3 - Select Column -	Enabled
4 - Select Column -	Enabled
5 - Select Column -	Enabled
6 - Select Column -	Enabled

Cancel Apply

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Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Broward County, Hendry County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550		Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 23	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450		Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	4600
SOUTH ATLANTIC	JACKSONVILLE	Region 04	Florida - 16, Florida - 23	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L65 East	3404000134	South Florida Water Management District	-		Florida	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	-

Figure 4.5.2-8: Actions Menu - Control Break

4. Click on dropdown arrow in the Columns box to group data into several columns
5. Click the dropdown arrow in the Status box to enable or disable the column
6. Click the “Apply” button (You also have the choice of clicking the “Cancel” button)

4.5.2.5 Highlight

The “Highlight” option in the actions menu allows you define a filter and view the filtered results using custom color options.

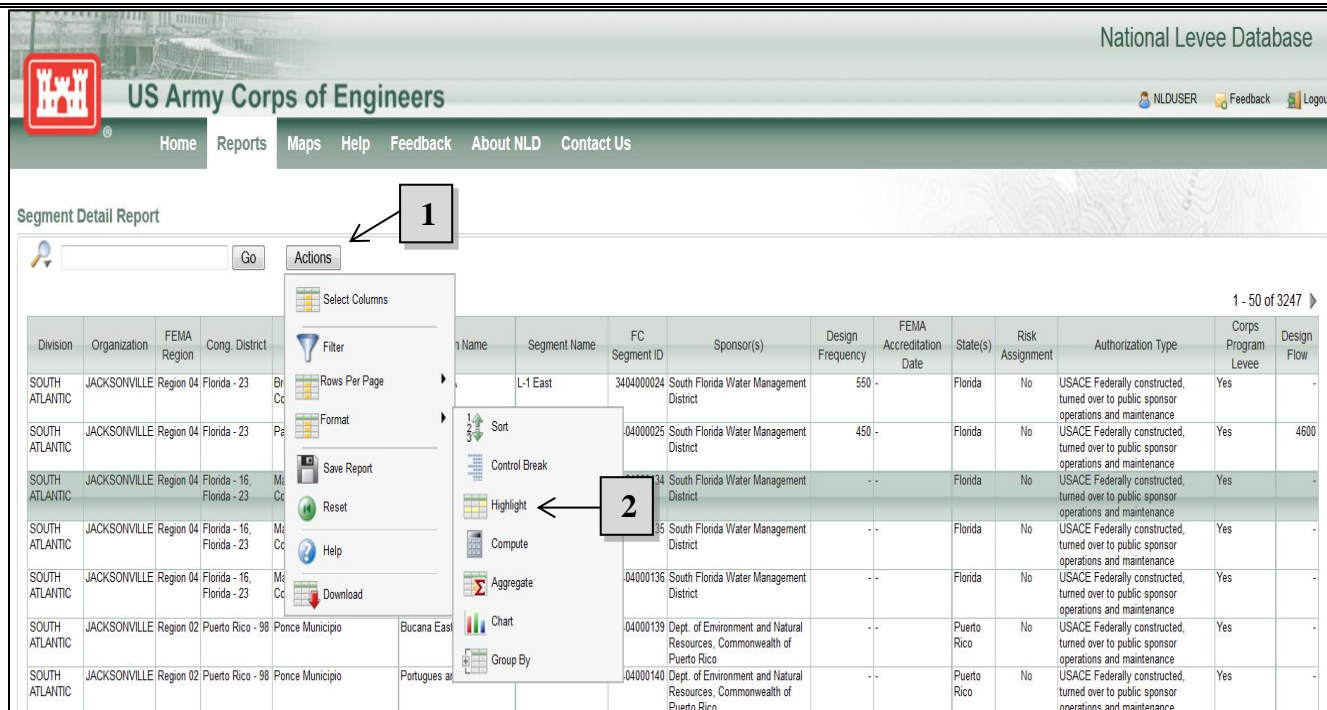


Figure 4.5.2-9: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Format” > “Highlight.” A new highlight region will display as shown below in Figure 4.5.2-10: Actions Menu - Highlight

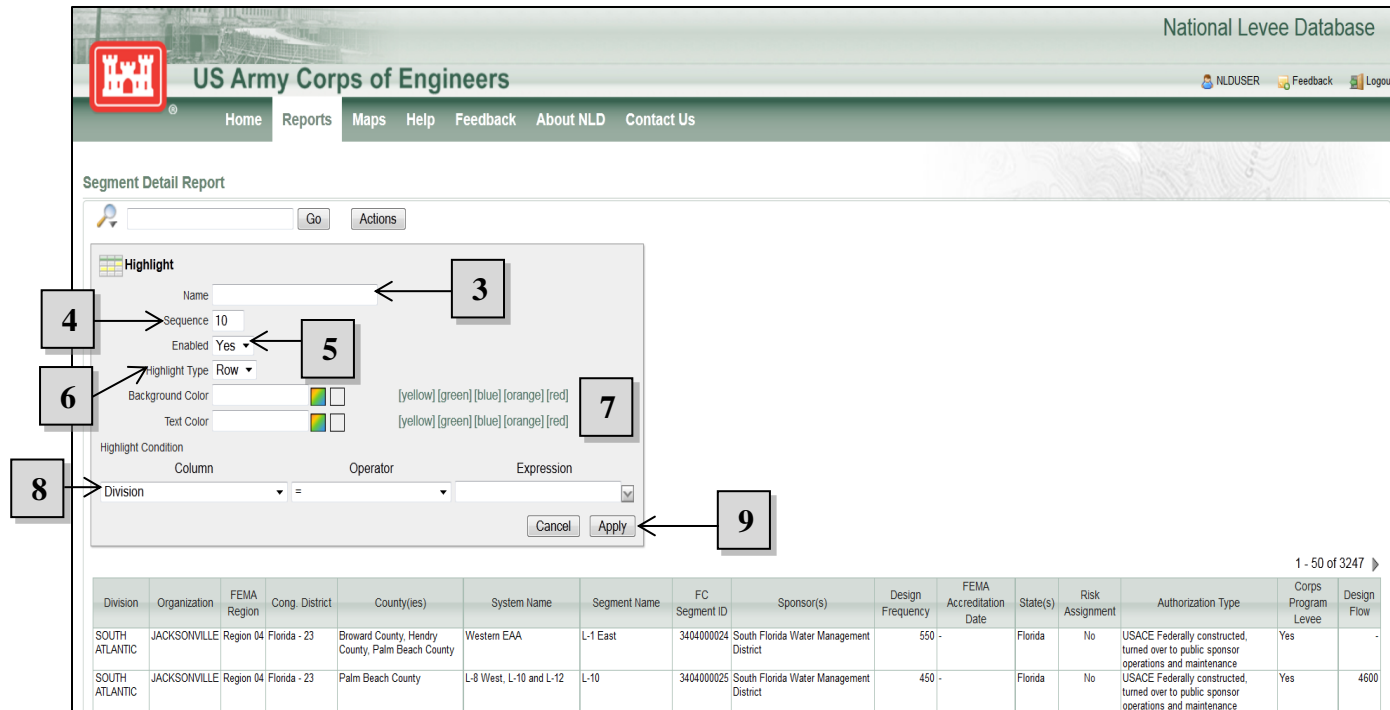


Figure 4.5.2-10: Actions Menu - Highlight

3. Enter a “Name” for a customized highlight filter
4. Enter a number in the “Sequence” box. A sequence identifies the sequence in which the rules will be evaluated

5. Select an “Enabled” status (Yes or No). This identifies if the rule is enabled or disabled
6. Select the “Highlight Type.” This will identify whether the Row or Cell should be highlighted
7. You can apply colors to certain data set by clicking on the color links beside the background color box and text color box. For additional options, click on the multicolor box. A separate window will display with more color options
8. By selecting the Column, Operator, and Expression in the Highlighted Condition section you will define your filter condition
9. Click the “Apply” button. The fields you selected will be highlighted (You also have the choice of clicking the “Cancel” button)

4.5.2.6 Compute

The “Compute” option in the actions menu allows you to add computed columns to a report. These can be mathematical computations or standard Oracle functions applied to existing columns.

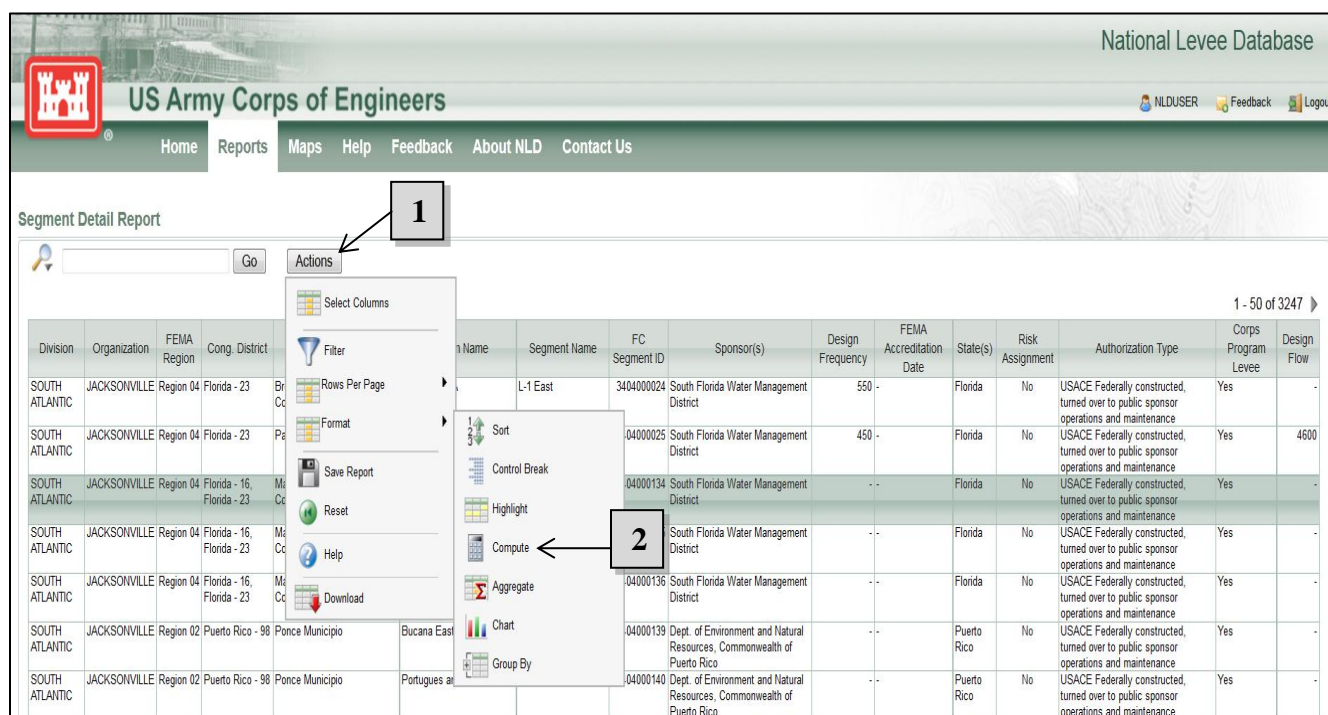


Figure 4.5.2-11: Actions Menu Functions

1. Click on the “Actions” button

- Click on “Format” > “Compute.” A new computation region will display as shown below in

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Segment Detail Report

Go Actions

Compute

Computation - New Computation -

Column Heading Format Mask

Computation Expression

Columns	Keypad	Function
C. FEMA Region	() '	ABS
D. Cong. District	7 8 9 -	ADD_MONTHS
E. County(ies)	4 5 6 +	CASE
F. Division	1 2 3 *	CEIL
G. Organization	0 - /	CHR
H. System Name	space .	COALESCE

Create a computation using column aliases.
Examples:
1. (B+C)*100
2. INITCAP(B||', '||INITCAP(C)
3. CASE WHEN A = 10 THEN B + C ELSE B END

Cancel Apply

- Figure 4.5.2-12: Actions Menu – Compute

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Segment Detail Report

Go Actions

Compute

Computation - New Computation -

Column Heading Format Mask

Computation Expression

Columns	Keypad	Function
C. FEMA Region	() '	ABS
D. Cong. District	7 8 9 -	ADD_MONTHS
E. County(ies)	4 5 6 +	CASE
F. Division	1 2 3 *	CEIL
G. Organization	0 - /	CHR
H. System Name	space .	COALESCE

Create a computation using column aliases.
Examples:
1. (B+C)*100
2. INITCAP(B||', '||INITCAP(C)
3. CASE WHEN A = 10 THEN B + C ELSE B END

Cancel Apply

Figure 4.5.2-12: Actions Menu – Compute

- Click on the dropdown arrow in the “Computation” box to select a computation
- Fill in the “Column Heading” box
- Select a “Format Mask” to define how the data is to be displayed
- Fill in “Computation Expression” box. Within the computation columns are referenced using the aliases displayed. Clicking on the column name or alias will write them into the Computation Expression box. Please note the keypad is displayed as a shortcut. These are commonly used keys

8. Click the “Apply” button (You also have the choice of clicking the “Cancel” button)

4.5.2.7 Aggregate

The “Aggregate” option in the actions menu allows you to add a new aggregate function to the report to determine the sum, average, count, count distinct, minimum, maximum or median values of a selected column.

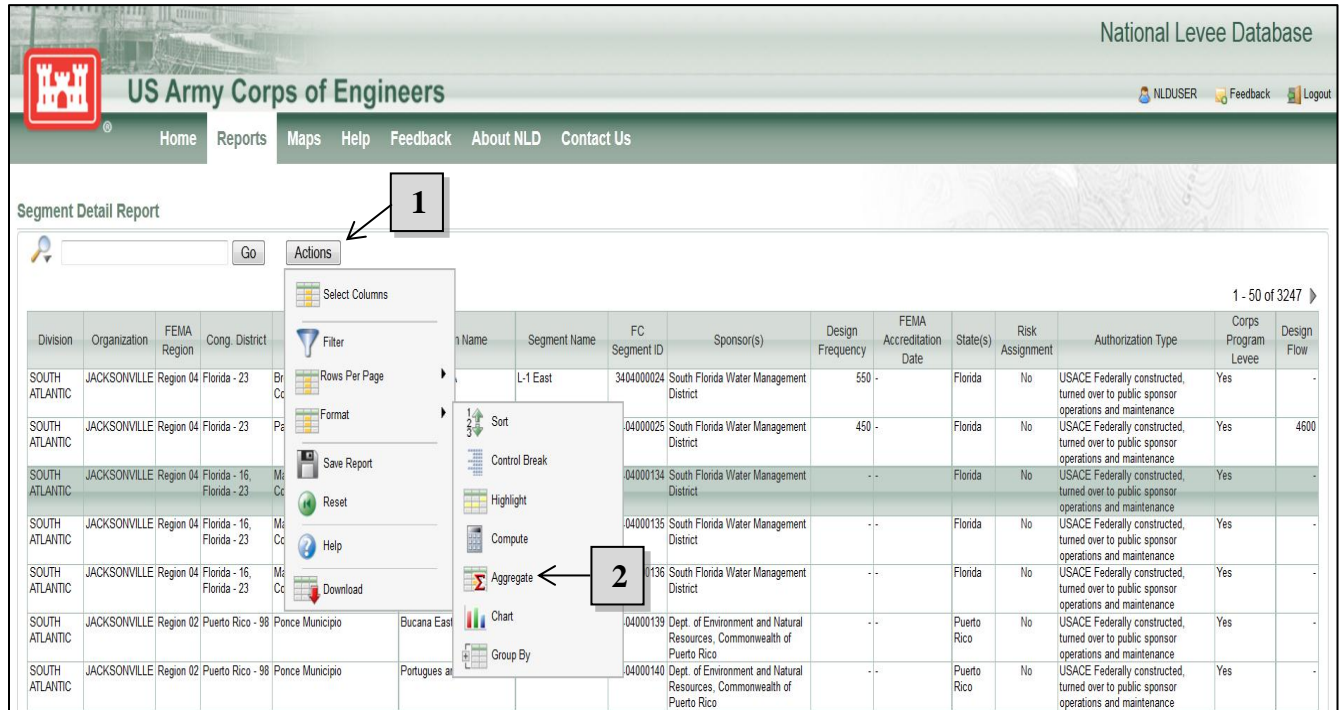


Figure 4.5.2-13: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Format” > “Aggregate.” A new aggregate region will display as shown below in Figure 4.5.2-14: Actions Menu - **Aggregate**

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Go Actions

Aggregate

Aggregation - New Aggregation -

Function Count

Column System Name

Cancel Apply

☒ Organization contains 'Sacramento'

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 02	Butte County	MA 13 Unit 2 north - Cherokee Canal left bank	Maintenance Area 13 - Unit 2, Cottonwood Creek right bank	5204000638	Central Valley Flood Protection Board	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 02, California - 04	Butte County	MA 13 Unit 2 south - Cherokee Canal left bank	Maintenance Area 13 - Unit 2, Cottonwood Creek left bank	5204000639	Central Valley Flood Protection Board	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 01, California - 03	Solano County, Yolo County	Putah Cr Unit 1 - Yolo Bypass - Willow Sligh Unit 2	Putah Creek - Unit 1, left bank	5204000641	Central Valley Flood Protection Board	-	-	California	No

Figure 4.5.2-14: Actions Menu - Aggregate

- Click on the “Aggregation” dropdown to select a new aggregation. Users can reuse saved aggregations that will display in the “Aggregation” dropdown
- Select a function from the dropdown to aggregate (Sum, Average, Count, etc.)
- Select a column to aggregate
- Click the “Apply” button (You also have the choice of clicking the “Cancel” button)
- Note: Creating a filter on the report first, helps to further define the criteria the user wants to aggregate

RD 2031 - Elliot	RD 2031 - Elliott - Unit 1, Stanislaus River left bank	5204001201
RD 2031 - Elliot	RD 2031 - Elliott - Unit 2, San Joaquin River right bank	5204001202
Count: 398		8

Figure 4.5.2-15: Actions Menu – Aggregate

- The aggregate will display at the bottom of the last row of the column that was selected (398 segments were counted in the organization Sacramento)

4.5.2.8 Chart

The “Chart” option in the actions menu allows you to create charts out of selected levee report data.

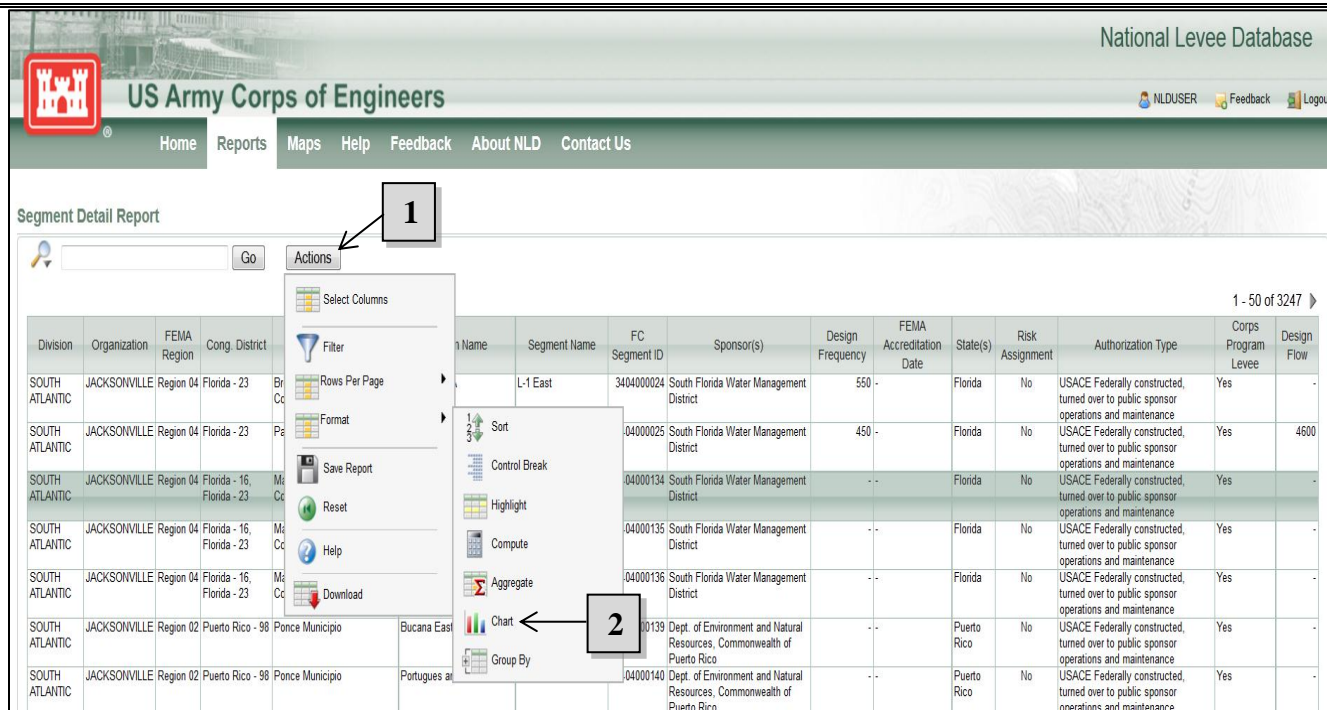


Figure 4.5.2-16: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Format” > “Chart.” A new chart region will display as shown below in Figure 4.5.2-17: Actions Menu - Chart

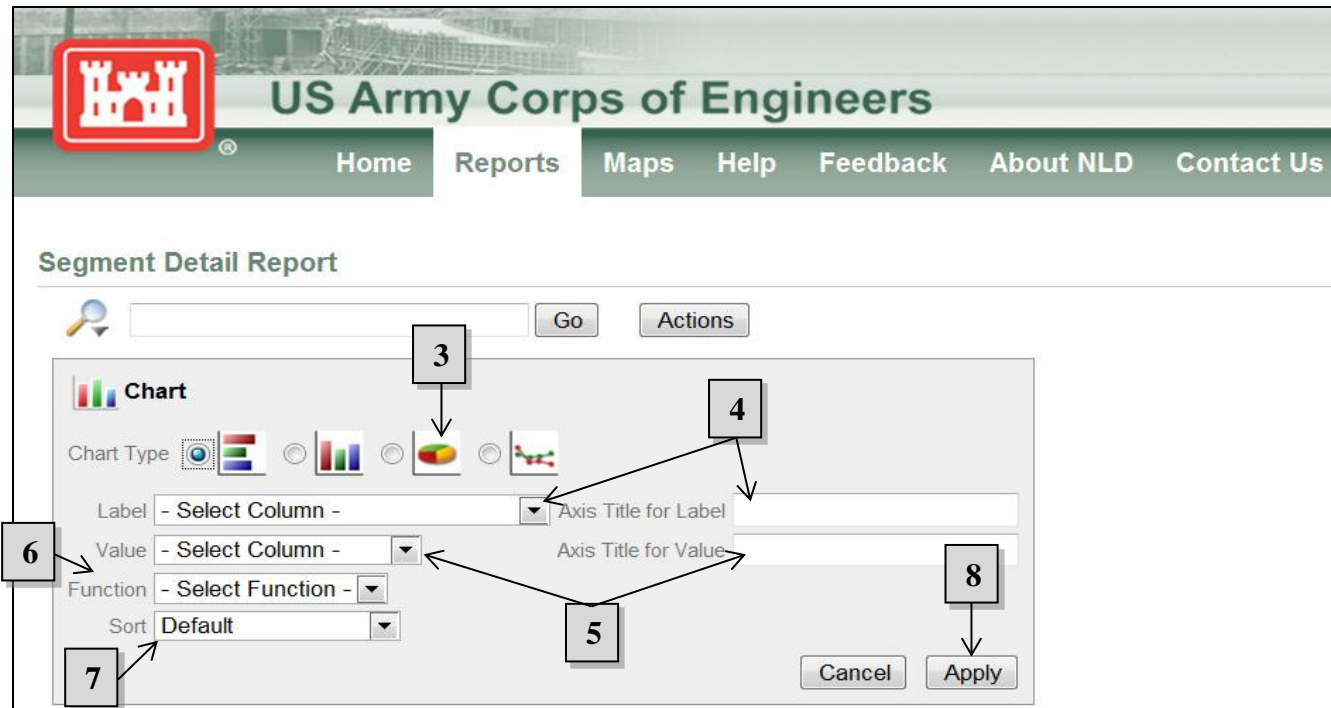


Figure 4.5.2-17: Actions Menu - Chart

3. Select one of the “Chart Type” radio buttons to create
4. Select a “Label” column and an axis title for the label
5. Select a “Value” column and an axis title for the value

6. Select a “Function” (Sum, Average, Minimum, Maximum and Count)
7. Select a sorting method (Value or Label, Ascending or Descending)
8. Click the “Apply” button (You also have the choice of clicking the “Cancel” button)

4.5.2.9 Group By

The “Group By” option in the actions menu allows you to select multiple filters to group your report results by. The “Group By” function allows the user to select functions and sort a group of one to three report column headings.

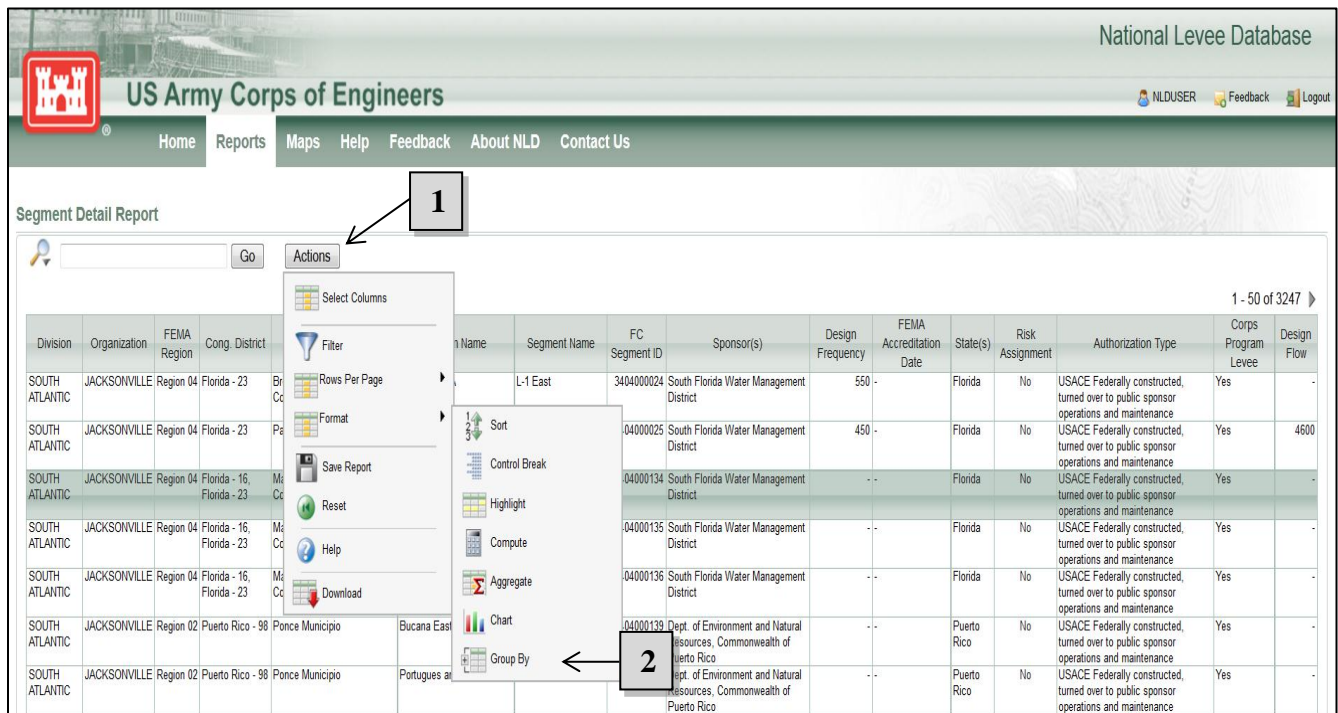


Figure 4.5.2-18: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Format” > “Group By.” A new group by region will display as shown below in Figure 4.5.2-19: Actions Menu - Group By

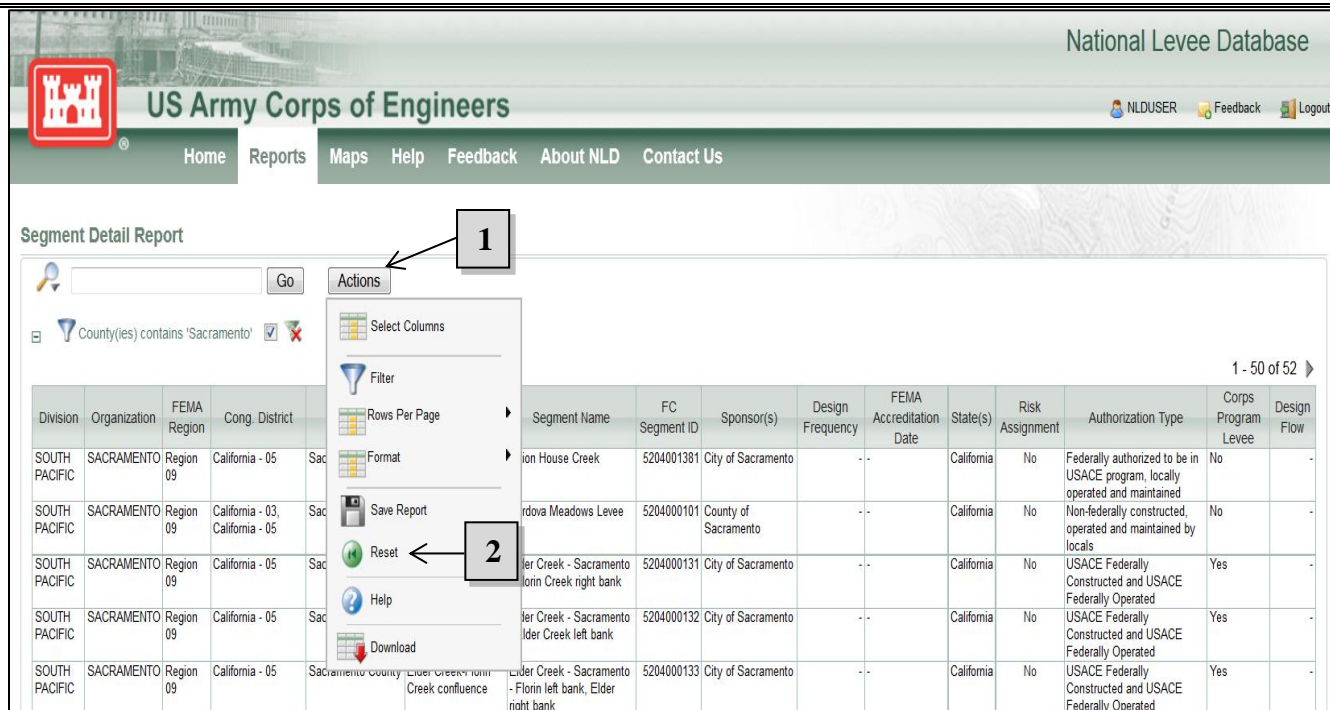
The screenshot shows the 'Segment Detail Report' interface. At the top is the US Army Corps of Engineers logo and navigation links: Home, Reports, Maps, Help, About NLD, and Contact Us. Below the navigation bar is a search bar and a 'Go' button. The main section is titled 'Segment Detail Report' and contains a 'Group By' section. This section has three 'Group By Column' dropdowns (labeled 1, 2, 3), each with a 'Select Column -' label. Below these are three rows of 'Functions' (labeled 1, 2, 3), each with a 'Select Function -' label, a 'Column' dropdown, a 'Label' field, a 'Format Mask' field, and a 'Sum' checkbox. At the bottom of the 'Group By' section are three rows of 'Sort Column' (labeled 1, 2, 3), each with a 'Select Sort Column -' label, a 'Direction' dropdown (with 'Ascending' selected), and a 'Null Sorting' dropdown (with 'Default' selected). To the right of the 'Group By' section is an 'Actions' button (labeled 3). Below the 'Group By' section are 'Cancel' and 'Apply' buttons. Numbered callouts 3 through 7 indicate the following steps: 3. Click on the 'Actions' button; 4. Click on the dropdown arrows in the 'Group By Column' boxes; 5. Click on the dropdown arrows to select functions; 6. Click on the dropdown arrows to select sort columns; 7. Click the 'Apply' button.

Figure 4.5.2-19: Actions Menu - Group By

3. Click on the dropdown arrows in the “Group By Column” boxes to select the columns to group by
4. Click on the dropdown arrows to select functions to perform on the associated selected columns
5. Create a Label and Format Mask for the column functions selected
6. Sort the report by selected columns
7. Click the “Apply” button (You also have the choice of clicking the “Cancel” button)

4.5.2.10 Reset

The “Reset” option in the actions menu allows you to reset the report back to the default settings and remove any customizations that were added.



Segment Detail Report

County(ies) contains 'Sacramento' ☒ ☐

1 - 50 of 52

Division	Organization	FEMA Region	Cong. District	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Union House Creek	5204001381	City of Sacramento	-	-	California	No	Federally authorized to be in USACE program, locally operated and maintained	No	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No	Non-federally constructed, operated and maintained by locals	No	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Elder Creek - Sacramento Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Elder Creek - Sacramento Elder Creek left bank	5204000132	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Elder Creek - Sacramento Elder Creek right bank	5204000133	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-

Figure 4.5.2-20: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Reset.” A reset region will display as shown in



Reset

Restore report to the default settings.

Cancel Apply

County(ies) contains 'Sacramento' ☒ ☐

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Union House-Elder Creek	Union House Creek	5204001381	City of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Sacramento County	Cordova Meadows - American River left bank	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Florin Creek right bank	Elder Creek - Sacramento Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No

- 3.

Segment Detail Report

Reset
Restore report to the default settings.

4 → Cancel Apply ← 3

County(ies) contains 'Sacramento' ☒ ☐

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Union House-Elder Creek	Union House Creek	5204001381	City of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Sacramento County	Cordova Meadows - American River left bank	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Florin Creek right bank	Elder Creek - Sacramento - Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No

Figure 4.5.2-21: Actions Menu - Reset

4. Click the “Apply” button to reset report to the default settings
5. Click the “Cancel” button if you do not want to reset report

4.5.2.11 Help

The “Help” option in the actions menu provides a detailed explanation on the Interactive Reporting functions.

Segment Detail Report

1 → Actions

2 → Help

County(ies) contains 'Sacramento' ☒ ☐

Division	Organization	FEMA Region	Cong. District	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Union House Creek	5204001381	City of Sacramento	-	-	California	No	Federally authorized to be in USACE program, locally operated and maintained	No	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No	Non-federally constructed, operated and maintained by locals	No	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Elder Creek - Sacramento - Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Elder Creek - Sacramento - Florin left bank, Elder Creek left bank	5204000132	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Elder Creek - Sacramento - Florin left bank, Elder Creek confluence	5204000133	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-

Figure 4.5.2-22: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Help.” A help region will display as shown in Figure 4.5.2-23: Actions Menu - **Help**

Interactive Report Help

Interactive report regions enable end users to customize reports. Users can alter the layout of report data by selecting columns, applying filters, highlighting, and sorting. Users can also define breaks, aggregations, charts, group bys, and add their own computations. Users can also set up a subscription so that an HTML version of the report will be emailed to them at a designated interval. Users can create multiple variations of a report and save them as named reports, for either public or private viewing.

An interactive report can be customized using the Search bar, Actions menu, or Column Heading menu. To learn more, see "Customizing Interactive Reports" in online Help.

Search Bar

At the top of each report page is a search region. This region (or Search bar) provides the following features:

- **Select columns icon** enables you to identify which column to search (or all).
- **Text area** enables you to enter case insensitive search criteria (wild card characters are implied).
- **Go button** executes the search.
- **Reports** displays alternate default and saved private or public reports.
- **Actions Menu** enables you to customize a report. See the sections that follow.

Actions Menu

The Actions menu appears to the right of the Go button on the Search bar. Use this menu to customize an interactive report.

Select Columns

Used to modify the columns displayed. The columns on the right display. The columns on the left are hidden. You can reorder the displayed columns using the arrows on the far right. Computed columns are prefixed with **.

Filter

Focuses the report by adding or modifying the WHERE clause on the query. You can filter on a column or by row.

If you filter by column, select a column (it does not need to be one that displays), select a standard Oracle operator (=, !=, not in, between), and enter an expression to compare against. Expressions are case sensitive. Use % as a wild card (for example, STATE_NAME like A%).

If you filter by row, you can create complex WHERE clauses using column aliases and any Oracle functions or operators (for example, G = 'VA' or G = 'CT', where G is the alias for CUSTOMER_STATE).

Rows Per Page

Sets the number of records to display per page.

Figure 4.5.2-23: Actions Menu - Help

4.5.2.12 Download

The Download option in the actions menu allows you to download the current result set of the report into an Excel CSV file.

Segment Detail Report

County(ies) contains 'Sacramento' ☒ ☐

1 - 50 of 52

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment	Authorization Type	Corps Program Levee	Design Flow
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Union House-Elder Creek	Union House Creek	5204001381	City of Sacramento	-	-	California	No	Federally authorized to be in USACE program, locally operated and maintained	No	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Sacramento County	Cordova Meadows - American River left bank	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No	Non-federally constructed, operated and maintained by locals	No	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Florin Creek right bank	Elder Creek - Sacramento - Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Sacramento - Florin left bank, Elder Creek confluence	Elder Creek - Sacramento - Florin left bank, Elder Creek right bank	5204000132	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Sacramento - Florin left bank, Elder Creek confluence	Elder Creek - Sacramento - Florin left bank, Elder Creek right bank	5204000133	City of Sacramento	-	-	California	No	USACE Federally Constructed and USACE Federally Operated	Yes	-

Figure 4.5.2-24: Actions Menu Functions

1. Click on the “Actions” button
2. Click on “Download.” A download region will display as shown in

Segment Detail Report

County(ies) contains 'Sacramento' ☒ ☐

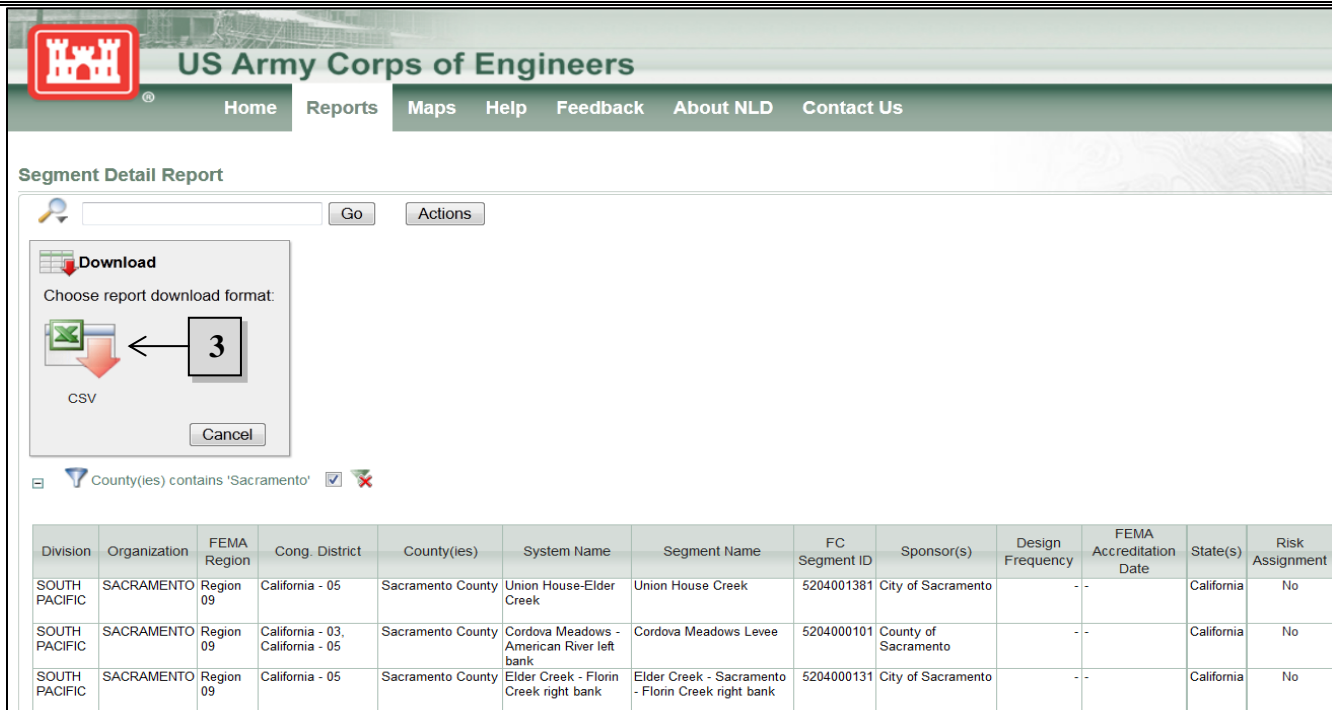
Download

Choose report download format:

CSV

Cancel

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Union House-Elder Creek	Union House Creek	5204001381	City of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Sacramento County	Cordova Meadows - American River left bank	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Florin Creek right bank	Elder Creek - Sacramento - Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No



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Go Actions

Download

Choose report download format:

CSV

Cancel

County(ies) contains 'Sacramento' ☒ ☐

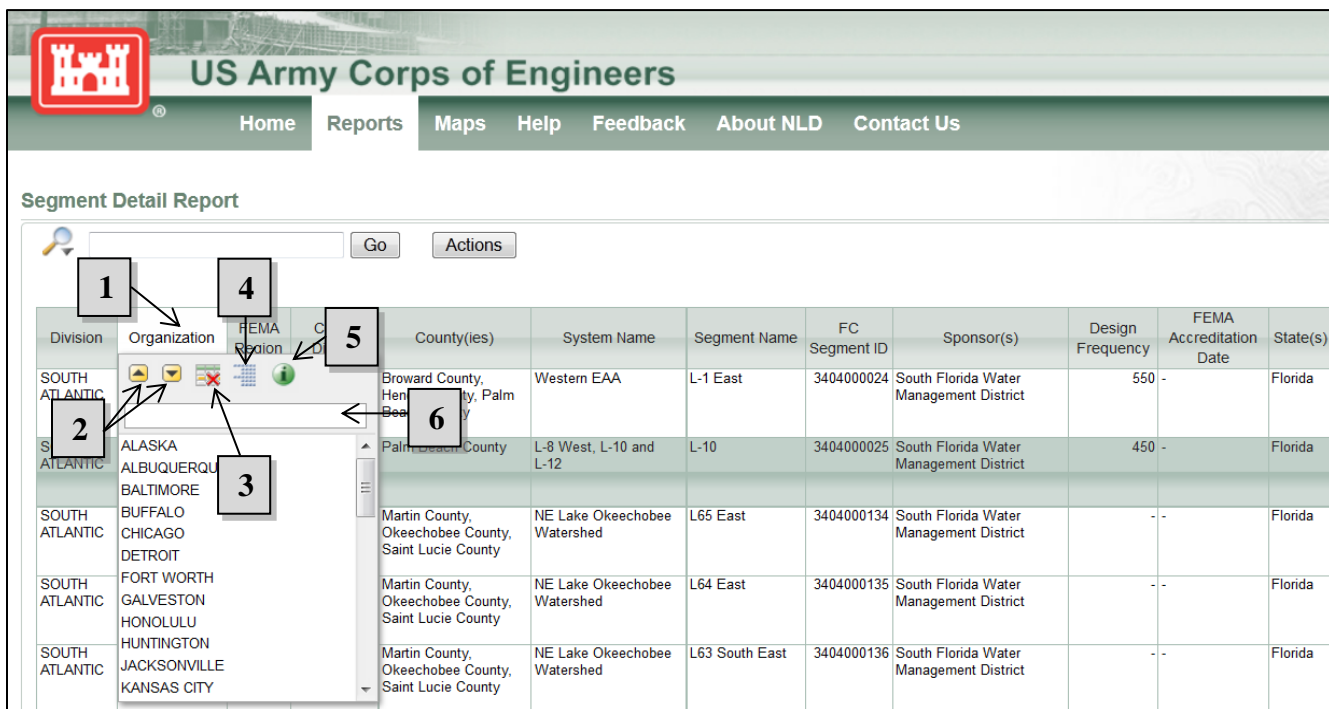
Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)	Risk Assignment
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Union House-Elder Creek	Union House Creek	5204001381	City of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 03, California - 05	Sacramento County	Cordova Meadows - American River left bank	Cordova Meadows Levee	5204000101	County of Sacramento	-	-	California	No
SOUTH PACIFIC	SACRAMENTO	Region 09	California - 05	Sacramento County	Elder Creek - Florin Creek right bank	Elder Creek - Sacramento - Florin Creek right bank	5204000131	City of Sacramento	-	-	California	No

Figure 4.5.2-25: Actions Menu - Download

- To download the report to Excel CSV, click the “Excel” CSV icon. You will be given the option to open or save the file. Choose to open the file to store in a temporary location on your computer, or save it to specify the location of the file

4.5.2.13 Using Interactive Columns

In addition to creating an interactive report within a standard report results list, an interactive report can be created within a column of the results list.



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Go Actions

1 4 5 6

2 3

Division	Organization	FEMA Region	Cong. District	County(ies)	System Name	Segment Name	FC Segment ID	Sponsor(s)	Design Frequency	FEMA Accreditation Date	State(s)
SOUTH ATLANTIC	ALASKA	Region 09	California - 05	Broward County, Hernando County, Palm Beach County	Western EAA	L-1 East	3404000024	South Florida Water Management District	550	-	Florida
SOUTH ATLANTIC	ALBUQUERQUE	Region 09	California - 05	Palm Beach County	L-8 West, L-10 and L-12	L-10	3404000025	South Florida Water Management District	450	-	Florida
SOUTH ATLANTIC	BALTIMORE	Region 09	California - 05	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L65 East	3404000134	South Florida Water Management District	-	-	Florida
SOUTH ATLANTIC	CHICAGO	Region 09	California - 05	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L64 East	3404000135	South Florida Water Management District	-	-	Florida
SOUTH ATLANTIC	DETROIT	Region 09	California - 05	Martin County, Okeechobee County, Saint Lucie County	NE Lake Okeechobee Watershed	L63 South East	3404000136	South Florida Water Management District	-	-	Florida
SOUTH ATLANTIC	FORT WORTH	Region 09	California - 05								
SOUTH ATLANTIC	GALVESTON	Region 09	California - 05								
SOUTH ATLANTIC	HONOLULU	Region 09	California - 05								
SOUTH ATLANTIC	HUNTINGTON	Region 09	California - 05								
SOUTH ATLANTIC	JACKSONVILLE	Region 09	California - 05								
SOUTH ATLANTIC	KANSAS CITY	Region 09	California - 05								

Figure 4.5.2-26: Interactive Columns Report

The basic functions of interactive reporting within a column heading include the following:

1. Column Header: Allows you to click the column header within a results list to display the interactive reporting capabilities
2. Sort Ascending/Descending: Allows you to sort column results list in ascending/descending order
3. Hide Column: Allows you to hide column from results list
4. Control Break: Allows you to display data, broken out and grouped based upon the values within the selected column
5. Column Information: Gives a short description/definition of the column
6. Search Field: Allows you to enter a keyword to search for and filter data within the column

4.6 Find Levees Near Me

This reporting feature allows you to identify levee data based upon zip code and then display levee systems on the NLD's interactive map.

The screenshot shows the 'Find Levees Near Me' form on the NLD website. The form has a title 'Find Levees Near Me' and a background image of a levee. The form contains two input fields: 'Zip Code' and 'Distance'. The 'Distance' field has a unit of 'miles'. Below the input fields are two buttons: 'Submit' and 'Return to Report Store'. A red box highlights the 'Submit' button. A numbered callout '1' points to the 'Zip Code' input field. A numbered callout '2' points to the 'Submit' button.

Figure 4.6-1: Find Levees Near Me

1. Enter the “Zip Code” and “Distance”
2. Click the “Submit” button

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Find Levees Near Me

Zip Code: 63130
Distance: 45 miles

Submit Return to Report Store

Actions

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	System Name	Cong. District	State	County	FEMA Region	Segments	Length (Miles)	Link to Map	Inspection Type	Inspection Rating	Inspection Date	Risk Assignment	Authorization Type	Corps Program Levee	Levee Area Type
	Columbia Drainage & Levee District No. 3 System	Illinois - 12	Illinois	Monroe County	Region 5	1	19.956		Periodic	MINIMALLY ACCEPTABLE	30-JAN-11	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	Agricultural
	Eldred Drainage & Levee District System	Illinois - 17	Illinois	Greene County	Region 5	1	17.6245		Periodic	MINIMALLY ACCEPTABLE	09-DEC-10	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	Agricultural
	Harrisonville / Stringtown / Ft. Chartres Levee System	Illinois - 12	Illinois	Monroe County, Randolph County	Region 5	3	34.4074		Periodic	MINIMALLY ACCEPTABLE	02-NOV-10	No	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes	Agricultural

Figure 4.6-2: Find Levees Near Me Results

3. A list of levees will populate within the distance of the zip code entered
4. Clicking the “Link to Map” icon will display the levee system on the interactive map

National Levee Database

US Army Corps of Engineers

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Welcome to the National Levee Database

The National Levee Database (NLD), developed by the U.S. Army Corps of Engineers (USACE), is the focal point for comprehensive information about our nation's levees. Authorized by Congress in 2007, the database contains information to facilitate and link activities, such as flood risk communication, levee system evaluation for the National Flood Insurance Program (NFIP), levee system inspections, flood plain management, and risk assessments. The NLD continues to be a dynamic database with ongoing efforts to add levee data from federal agencies, states, and tribes.

Here is what is available in the NLD:

- Majority of levees located within the USACE Levee Program
- Reports on levees in the NLD located within your state, zip code, or address
- Various federal database resources integrated into NLD such as the National Weather Service
- Feedback link for you to provide comments on the NLD
- Contact Us tab if you need assistance or have questions

Please Note: The NLD currently contains the majority of levees within the USACE program. The NLD does not contain all levees located in the United States.

Reports

View searchable reports depicting levee system and segment information

Basic System Reporting
Search for NLD levee data by specified search criteria

Advanced Reporting
Navigate through customized reports

Find Levees Near Me

Zip Code:
Distance: miles

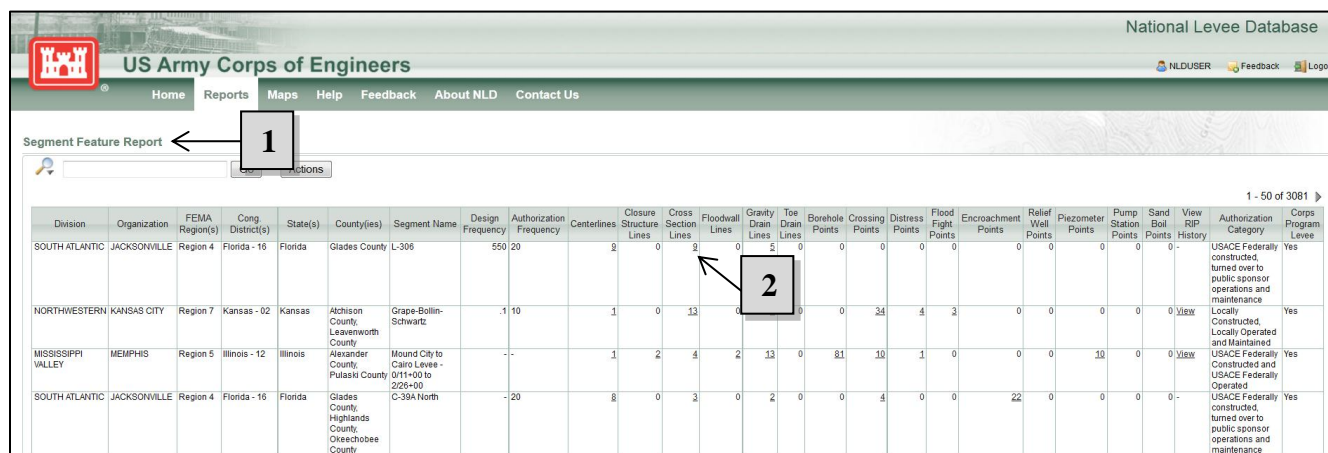
Submit

Figure 4.6-3: Find Levees Near Me

5. Enter a zip code and distance and click “Submit” in order to generate a Find Levees Near Me report directly from the Home tab

5. Plots

From the System Feature and Segment Feature reports, the user may navigate to the feature drilldown reports to view detailed information about a specific feature type of the system or segment. For both the Cross Section line and Closure Structure line a profile plot is available for viewing:



Division	Organization	FEMA Region(s)	Cong. District(s)	State(s)	County(ies)	Segment Name	Design Frequency	Authorization Frequency	Centerlines	Closure Structure Lines	Cross Section Lines	Floodwall Lines	Gravity Drain Lines	Toe Drain Lines	Borehole Points	Crossing Points	Distress Points	Flood Fight Points	Encroachment Points	Relief Well Points	Piezometer Points	Pump Station Points	Sand Bol Points	View RSP History	Authorization Category	Corps Program Levee
SOUTH ATLANTIC	JACKSONVILLE	Region 4	Florida - 16	Florida	Glades County	L-306	550	20	2	0	9	0	2	0	0	0	0	0	0	0	0	0	0	0	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes
NORTHWESTERN	KANSAS CITY	Region 7	Kansas - 02	Kansas	Alchison County, Leavenworth County	Grape-Bollin-Schwartz	1	10	1	0	13	0	0	0	0	34	4	3	0	0	0	0	0	0	Locally Constructed, Locally Operated and Maintained	Yes
MISSISSIPPI VALLEY	MEMPHIS	Region 5	Illinois - 12	Illinois	Alexander County, Pulaski County	Mound City to Cairo Levee - 0111+00 to 2025+00	-	-	1	2	4	2	13	0	81	18	1	0	0	0	18	0	0	0	USACE Federally Constructed and USACE Federally Operated	Yes
SOUTH ATLANTIC	JACKSONVILLE	Region 4	Florida - 16	Florida	Glades County, Highlands County, Okeechobee County	C-39A North	-	20	8	0	3	0	2	0	0	4	0	0	22	0	0	0	0	0	USACE Federally constructed, turned over to public sponsor operations and maintenance	Yes

Figure 4.6-1: Segment Feature Report - Cross Section Lines

1. Navigate to the System Feature Report or the Segment Feature Report
2. In the Cross Section Lines column, click the hyperlinked value to view the cross section lines for the selected segment

Organization	System Name	Segment Name	Sponsor(s)	Coordinate Capture Method	Link to Map	View Plot	View Media	Survey Date	River Mile	Horizontal Accuracy (Feet)	Vertical Accuracy (Feet)	Levee Stationing Code	Comments
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.04	.05	237+61.6068	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.04	.06	227+60.3259	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.02	.03	128+36.5439	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.02	.02	108+78.1260	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.02	.03	92+58.9530	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.02	.03	76+16.5413	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.04	.05	53+96.3687	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.03	.05	207+39.4923	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.04	.05	34+98.9669	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.04	.05	12+05.6151	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.02	.03	155+47.6527	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.03	.03	174+80.9829	-
KANSAS CITY	Grape-Bollin-Schwartz Levee Association	Grape-Bollin-Schwartz	Grape-Bollin-Schwartz Levee Association	Surveyed using RTK and Total Station		View Plot		20-APR-10	-	.03	.04	192+71.5236	-

Figure 4.6-2: Cross Section Lines – View Plot

- Click 'View Plot' for a cross section to view the profile plot
- You can also click the 'Link to Map' icon to view your point on the map

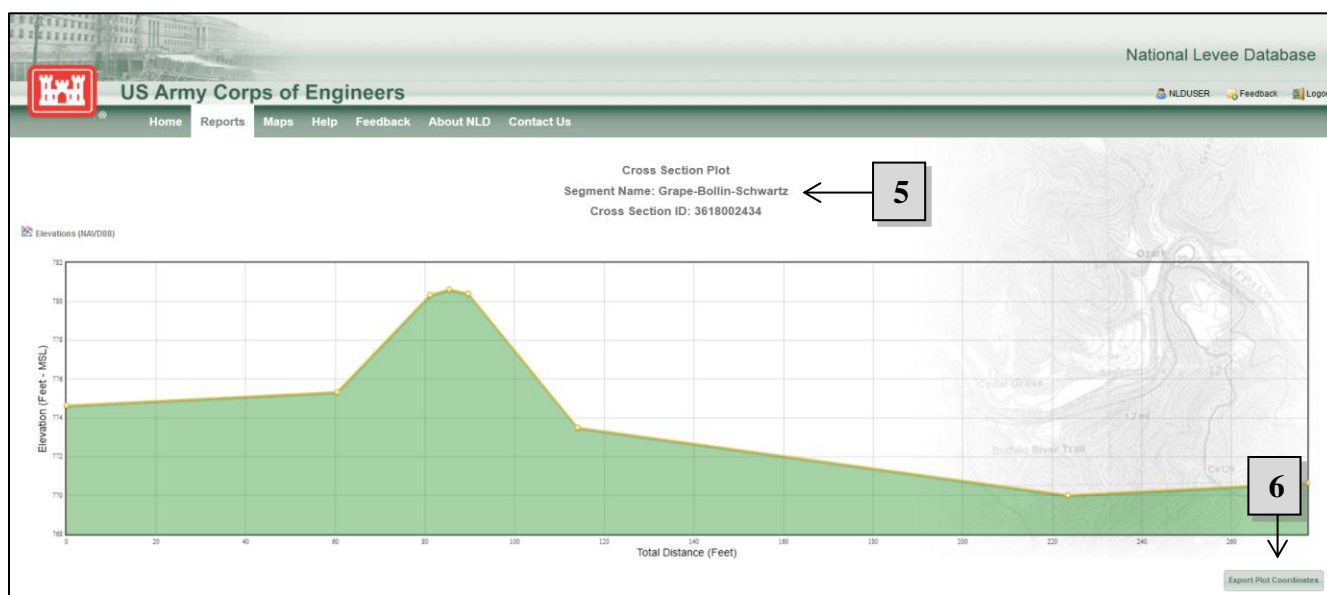


Figure 4.6-3: Cross Section Plot

- The Cross Section Plot will display, identified by the Segment Name and Cross Section ID
- Click 'Export Plot Coordinates' to view the plotted coordinates, by elevation and distance, in Excel

Repeat the above steps to view the closure structure plot, from the Closure Structure Lines report.

Note: the Cross Section Plot and Closure Structure Plot will not display if there is no information regarding the feature's elevation.

6. Maps

6.1 Navigating to Maps

The “Maps” tab is the third tab available on the NLD navigation toolbar.

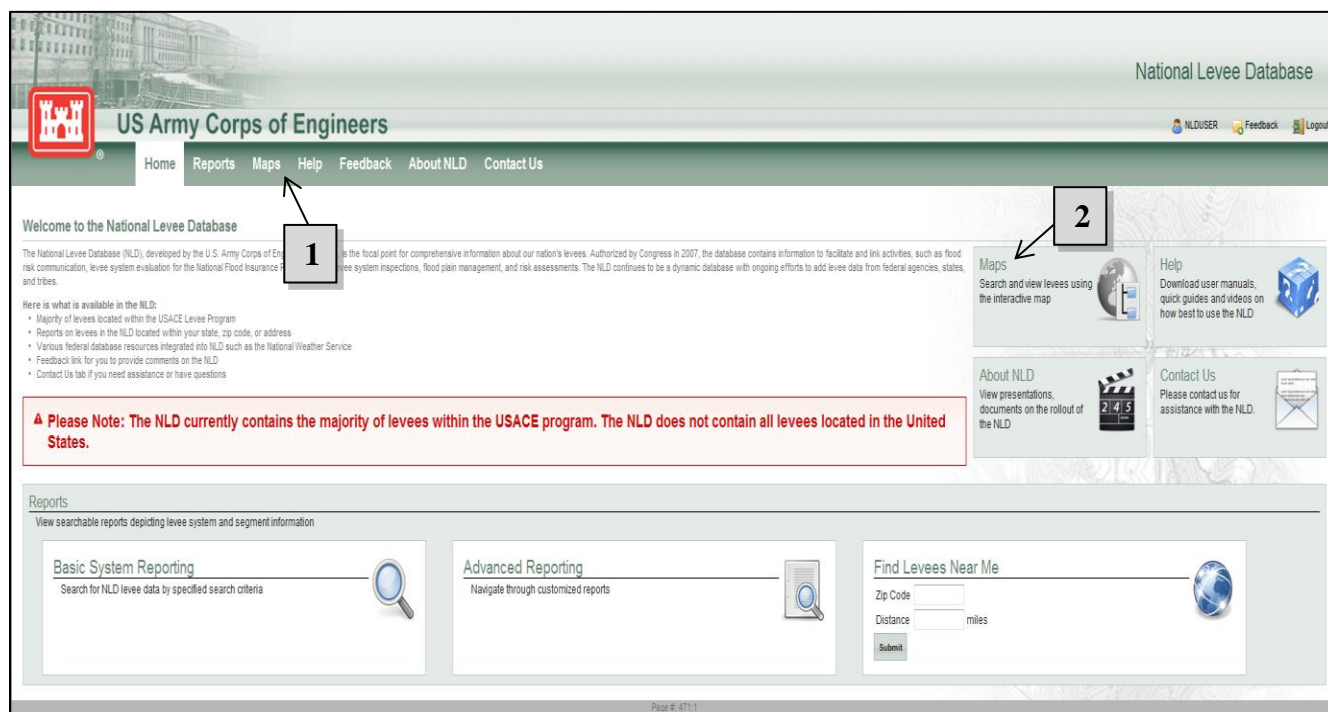


Figure 6.1-1: Maps Tab

1. The user can click on the “Maps” tab to navigate to the interactive map
2. Clicking the “Maps quick-link” button will navigate to the interactive map

By clicking on either of these two “Maps” options you will be taken to the Maps screen shown below in Figure 6.1-2: Maps.

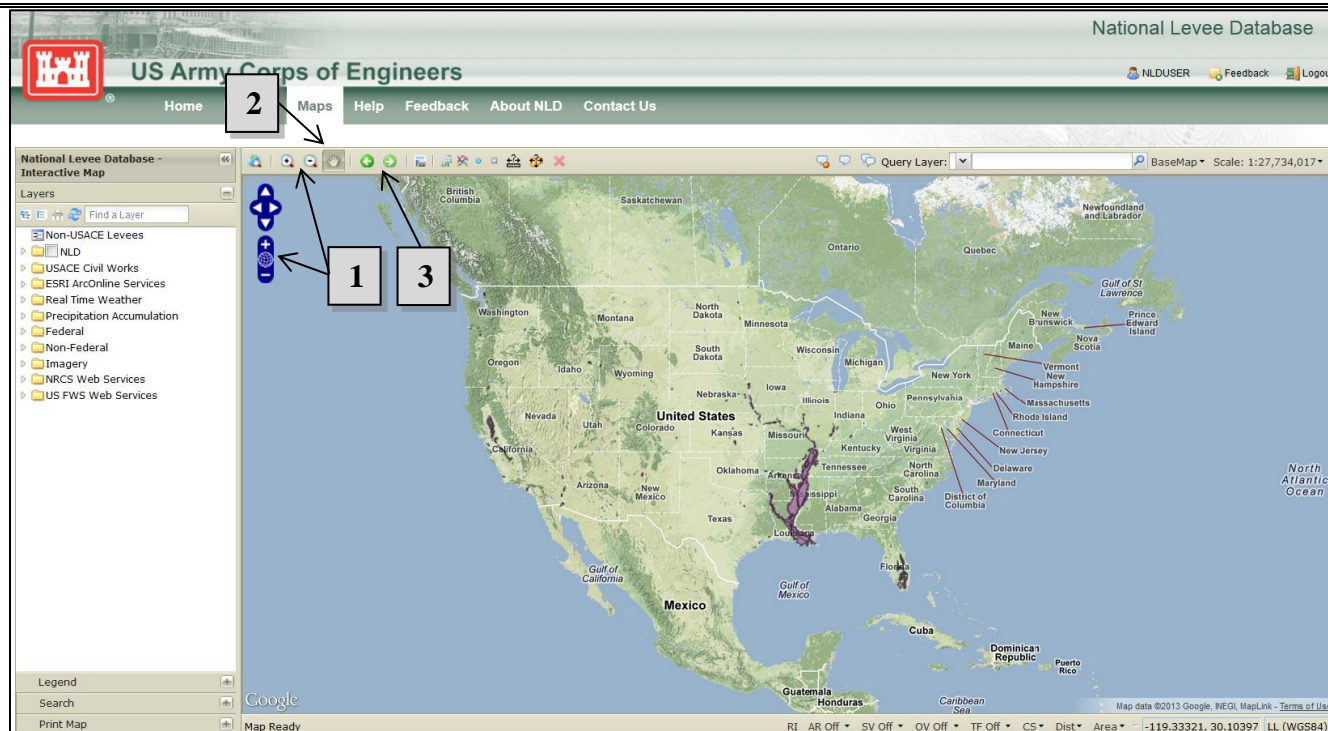


Figure 6.1-2: Maps

The Map navigation tools include:

1. Zoom in / Zoom out
2. Pan
3. Previous / Next view

All map tools contain “tool tips,” identified by hovering the cursor over each toolbar item. A small pop-up box will display next to the cursor that contains supplementary information regarding each item.

6.2 Map Utilities

Five BaseMaps are included in the map utilities; four Google maps (Hybrid, Streets, Satellite, and Terrain) and a USGS DRG Topographic map layer.

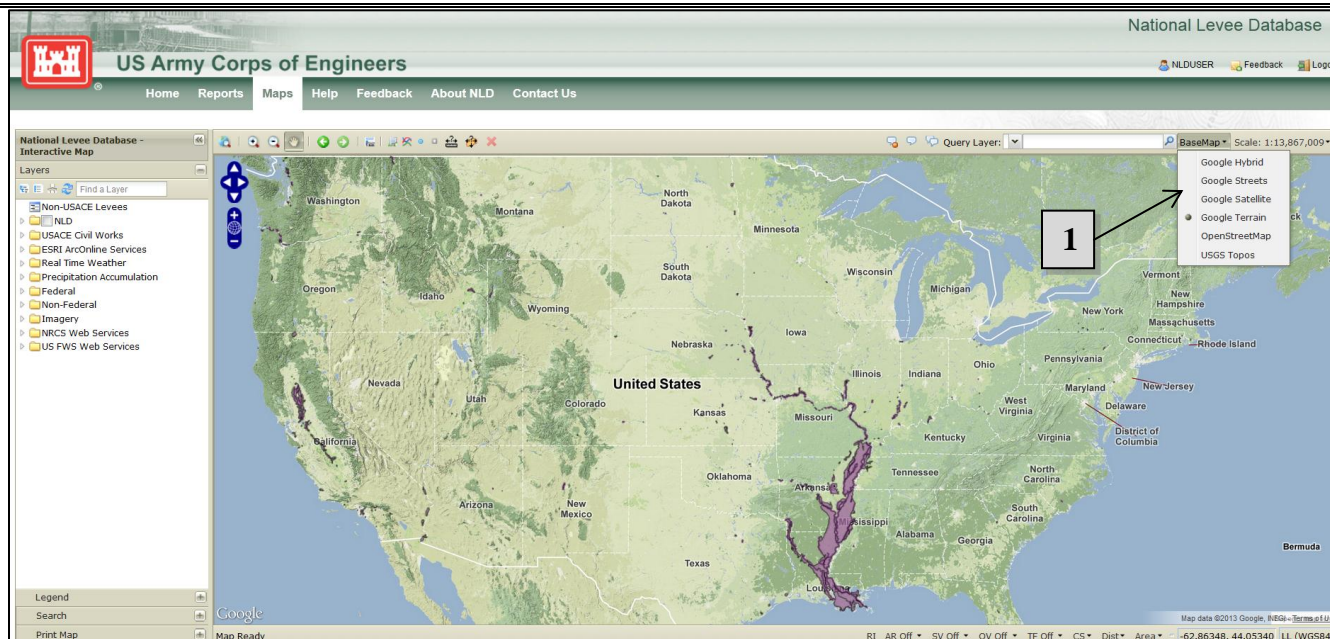


Figure 6.2-1: BaseMap Utilities

1. Click on the dropdown arrow in the “BaseMap” box to select a basemap

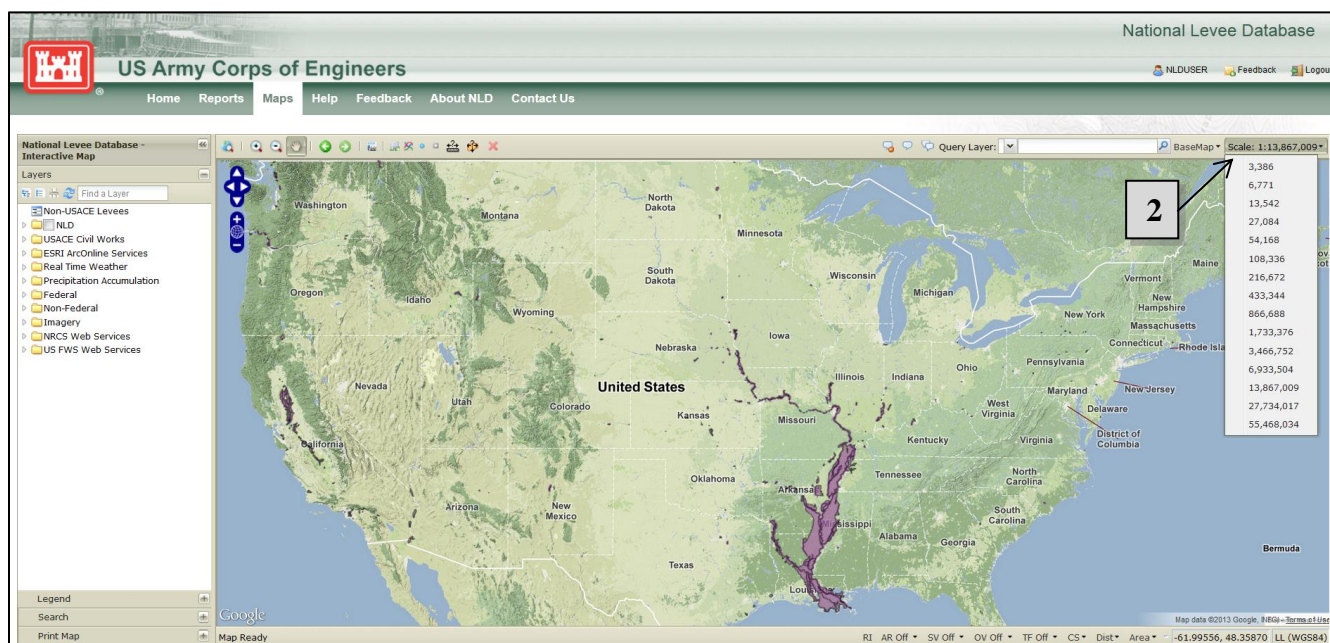


Figure 6.2-2: Map Scales

2. Click on the dropdown arrow in the Scale box. You can set the map to a fixed scale. The fixed scale choices are based on Google map tile scales

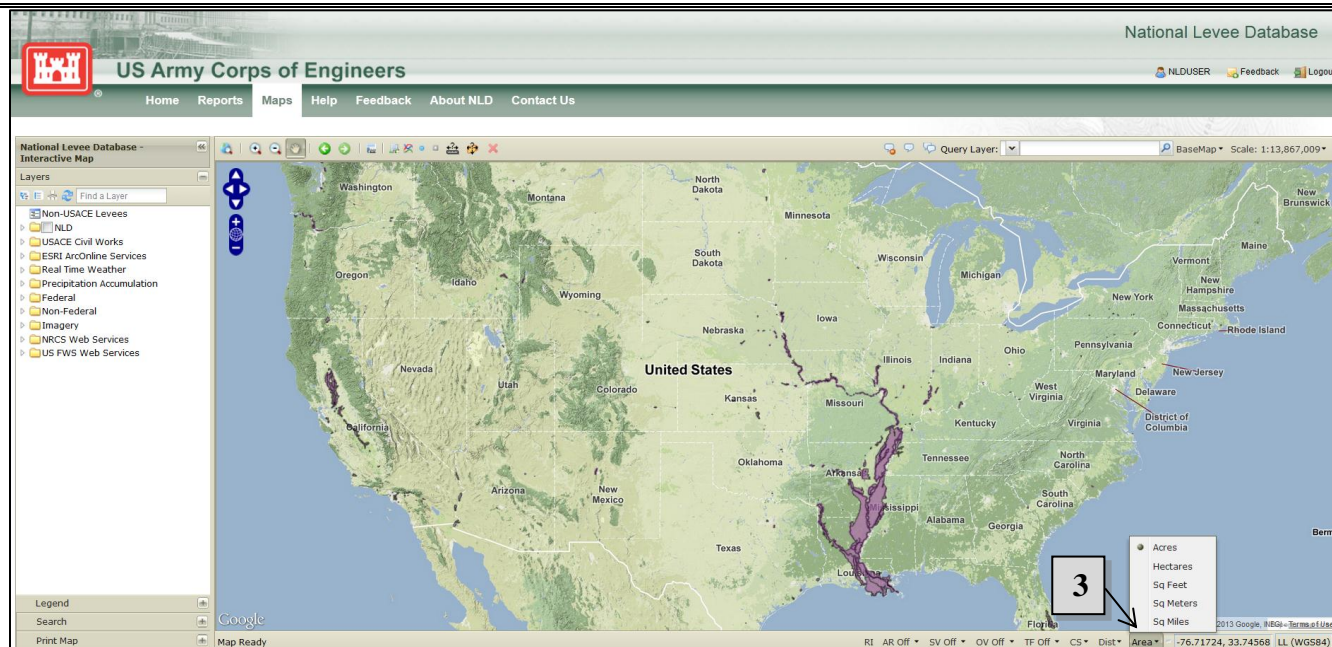


Figure 6.2-3: Area Units

- Click the dropdown arrow in the “Area Units Acres” box. Units of measurement are available for linear and area measurements

6.3 Search

You can search for a location on the map by any of the following five search methods: Coordinate, Address, Zip Code, County or Google Search.

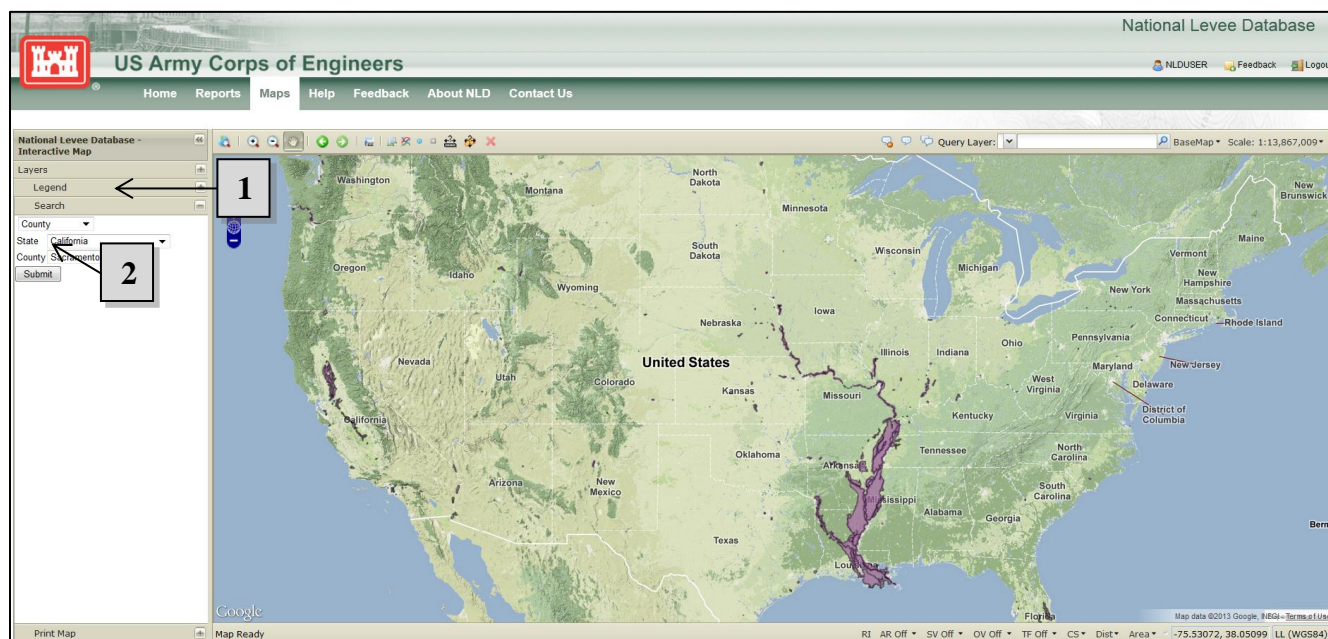


Figure 6.3-1: Search for Location

- Select method of Search (Coordinate, Address, Zip Code, County or Google) and enter relevant information

2. Click the “Submit” button

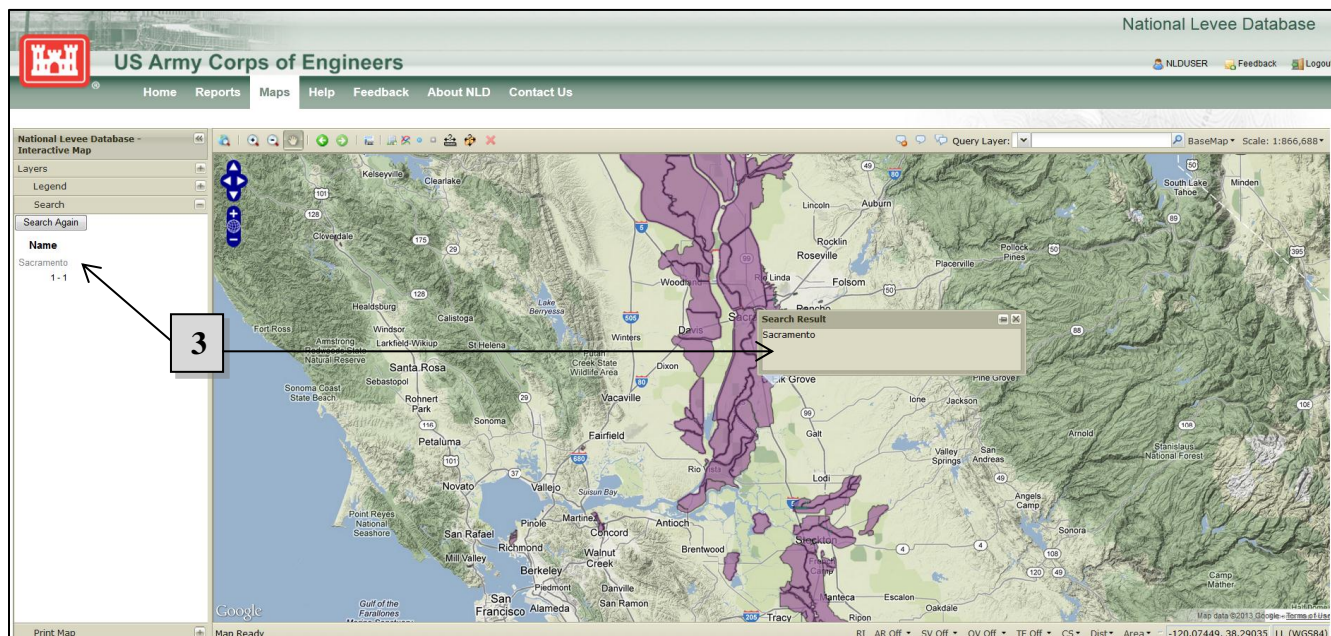


Figure 6.3-2: Search for Location

3. The system will display a link to confirm the search criteria. Click on the link and the system will put a pin on the map and zoom in to that location

6.4 Layers

The layers are located on the left panel of the map.

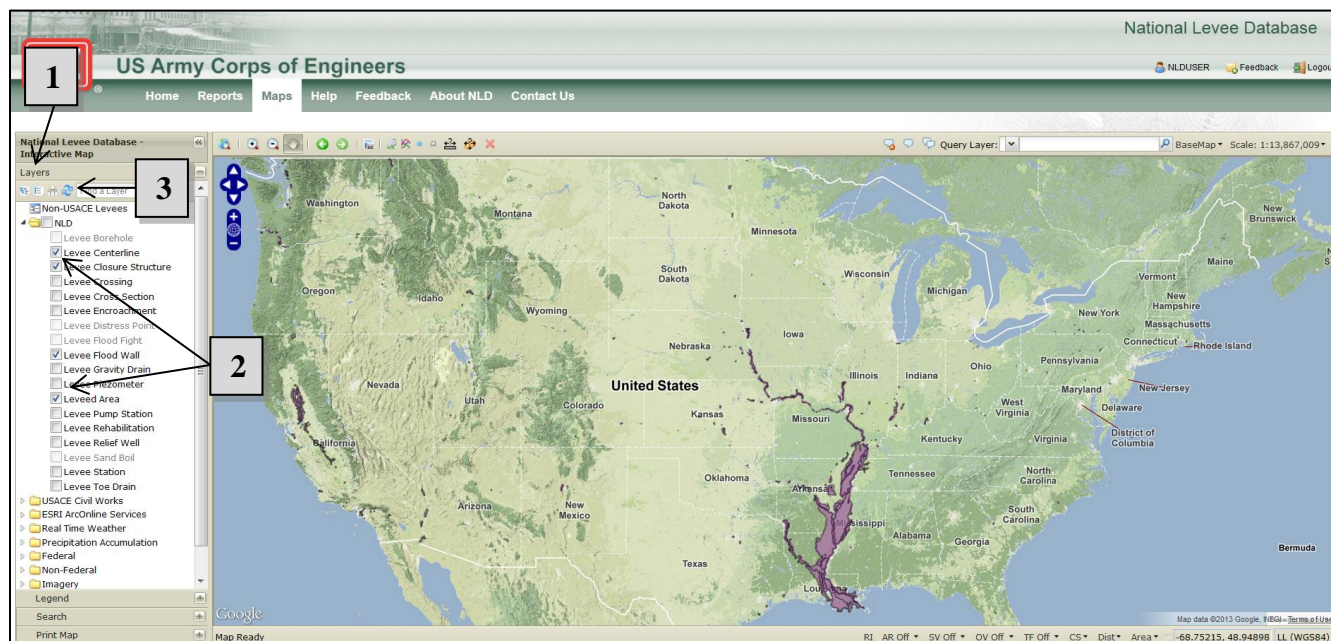


Figure 6.4-1: Map Layers

1. Click the “Layers” bar to expand the layer panel
2. Turn on individual layers by selecting the associated checkboxes; map will re-load with the selected layers

Note: The following layers will display by default: Levee Centerline, Levee Closure Structure, Levee Flood Wall and Leveed Area.

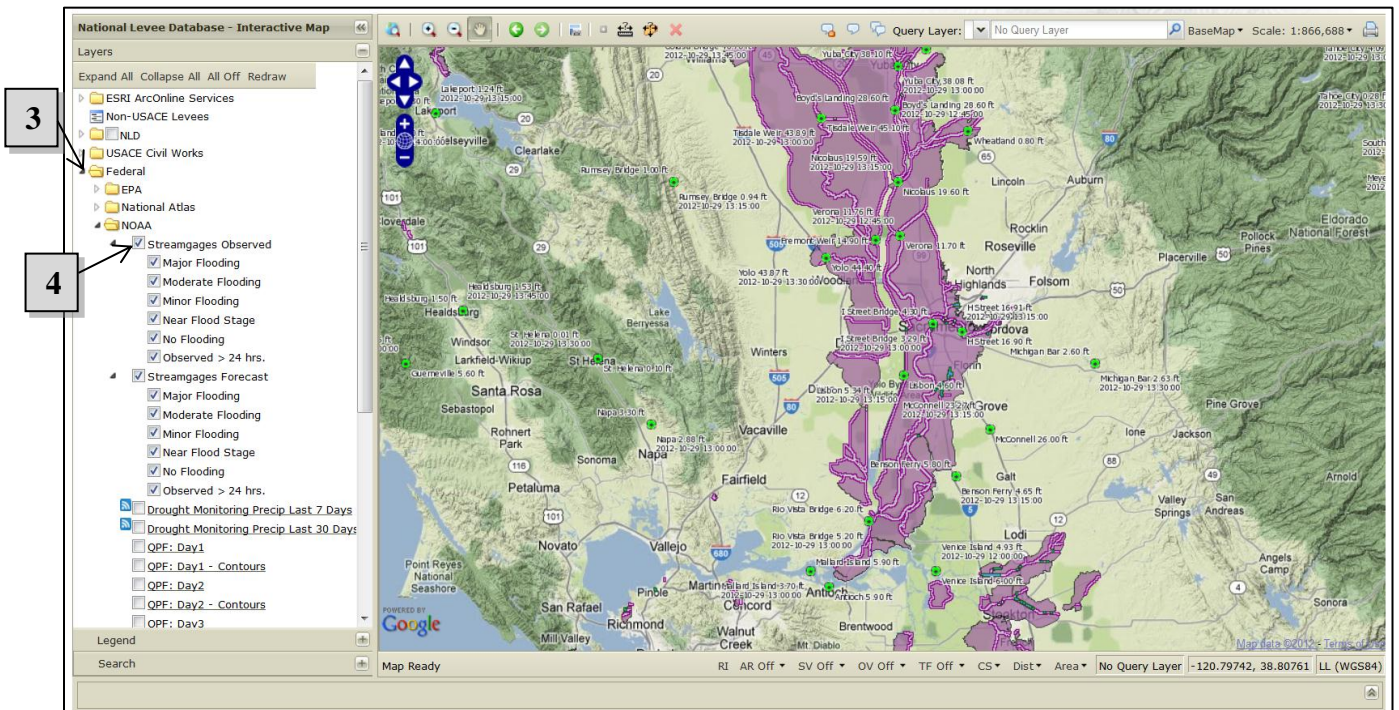


Figure 6.4-2: Multiple Map Layers

3. Expand the layer folder to see additional layer options and select multiple layers
4. Select the sub-layers by clicking the check boxes of the ones you want to display

To search the layers panel, enter the search criteria into the text area 'Find a Layer.' Results will display as text is entered.

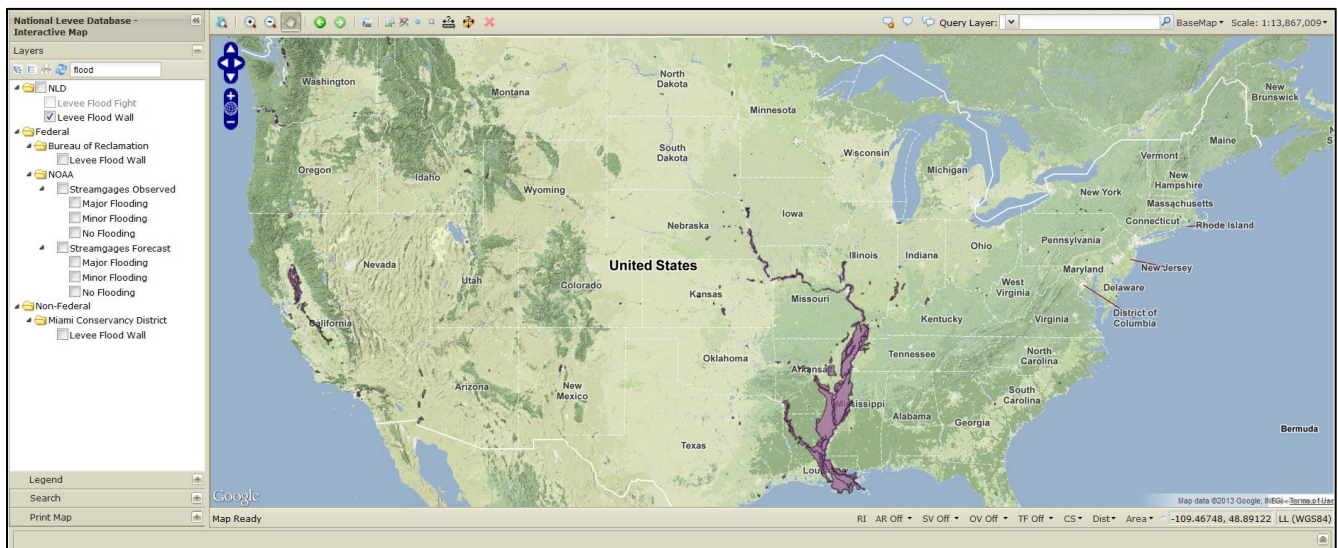


Figure 6.4-3: Find a Layer

6.5 Legend

The legend panel will help you decipher the various symbols generated on the map when displaying different layers.

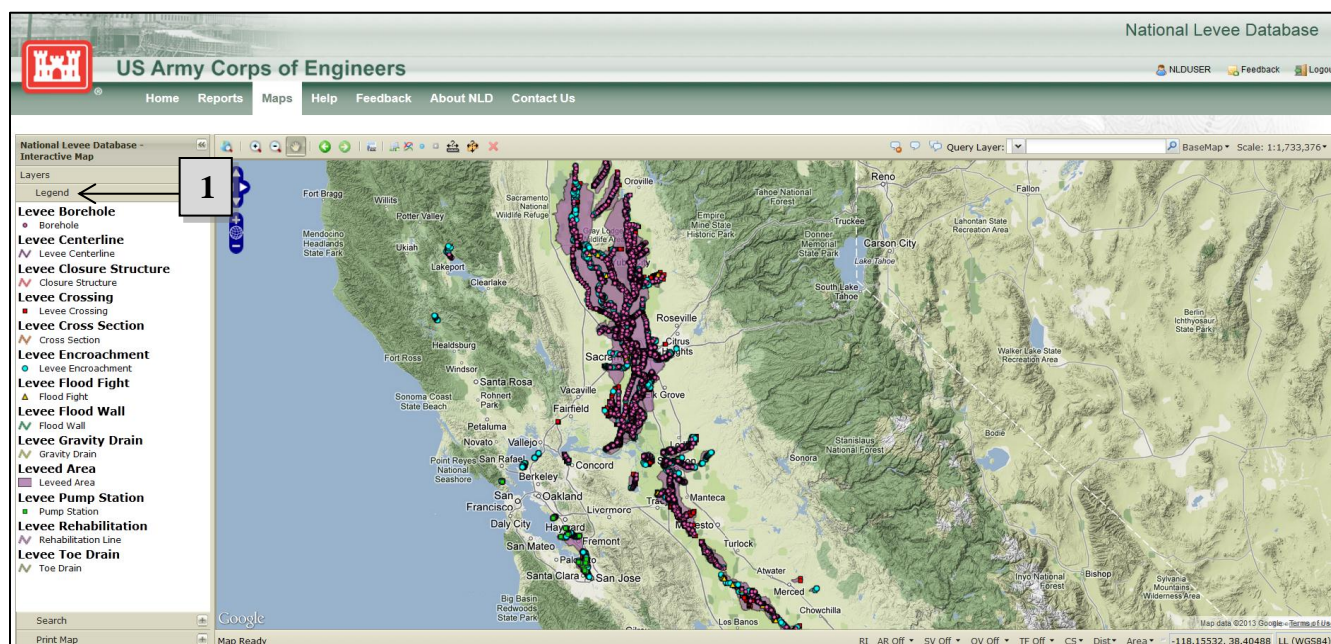


Figure 6.5-1: Legend

1. To access the legend, click on the “Legend” panel in the left hand navigation. The legend will only display the layers that have been selected in the “Layers” tab

6.6 Print Map

To view or print a PDF Map, open the Print Map panel.

1. Drag and resize the highlighted area on the map to select the region to be printed
2. Enter a title and comments, and select a layout, resolution, scale and rotation, if desired
3. Click ‘Create PDF’ and the map will display in a separate window

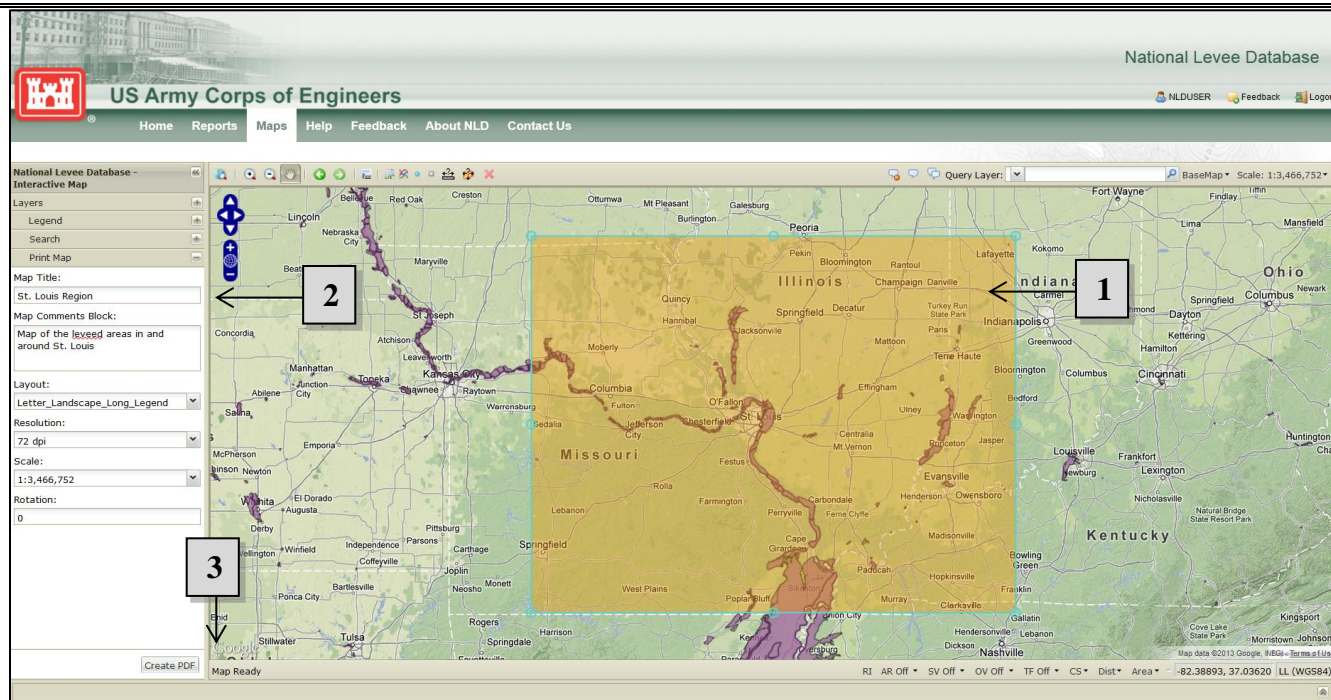


Figure 6.6-1: Print Map

6.7 Queries

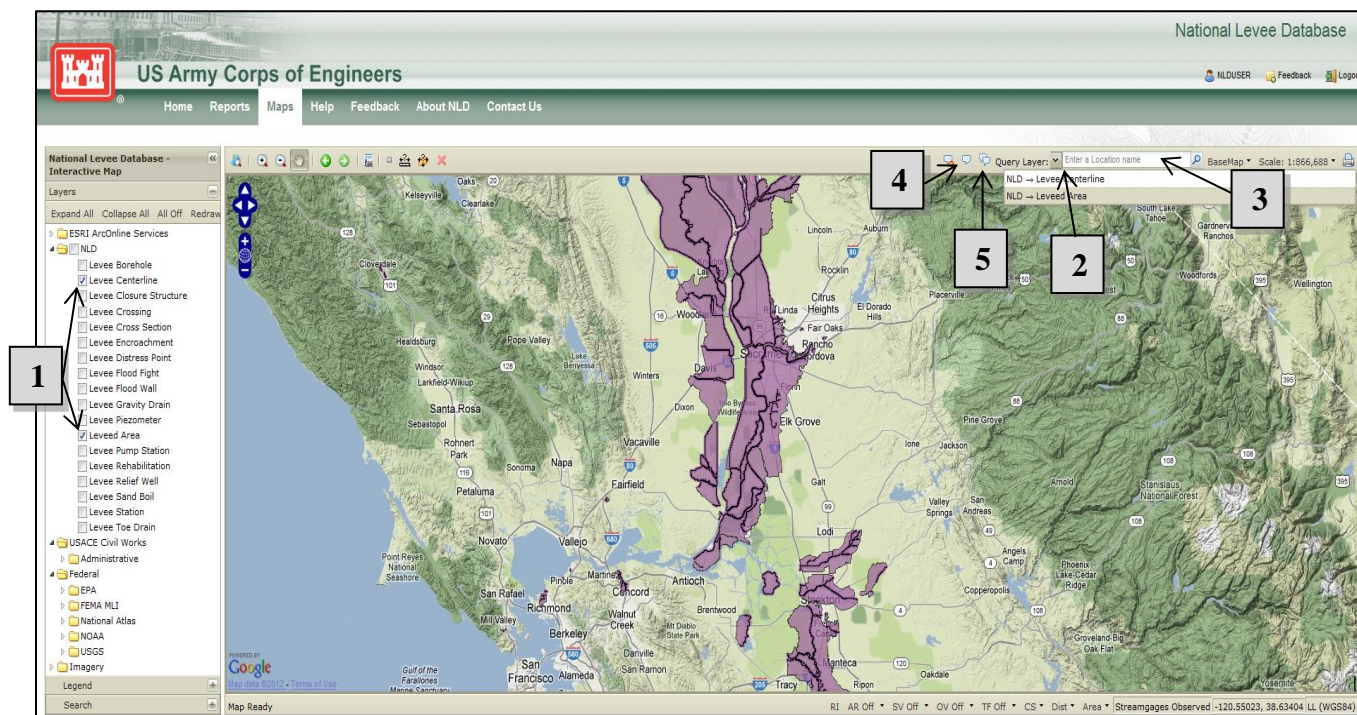


Figure 6.7-1: Queries

1. A user can query “Levee Centerline,” “Levee Flood Wall,” “Levee Closure Structure” and “Leveed Area” features on the map. To query one of these layers, it must be turned on in the layers panel
2. Select one of the query layers by clicking the dropdown arrow in the “Query Layer” box
3. Enter the query in the open text field

-OR-

- Click the single conversation box tool titled “Popup Info Query.” After clicking the tool, you will be able to draw a red square on the map. The square you draw will determine the area that will be queried and a popup will display the results
- Click the double conversation box tool titled “Table Info Query.” After clicking the tool, you will be able to draw a red square on the map. The square you draw will determine the area that will be queried and a table will display the results under the map

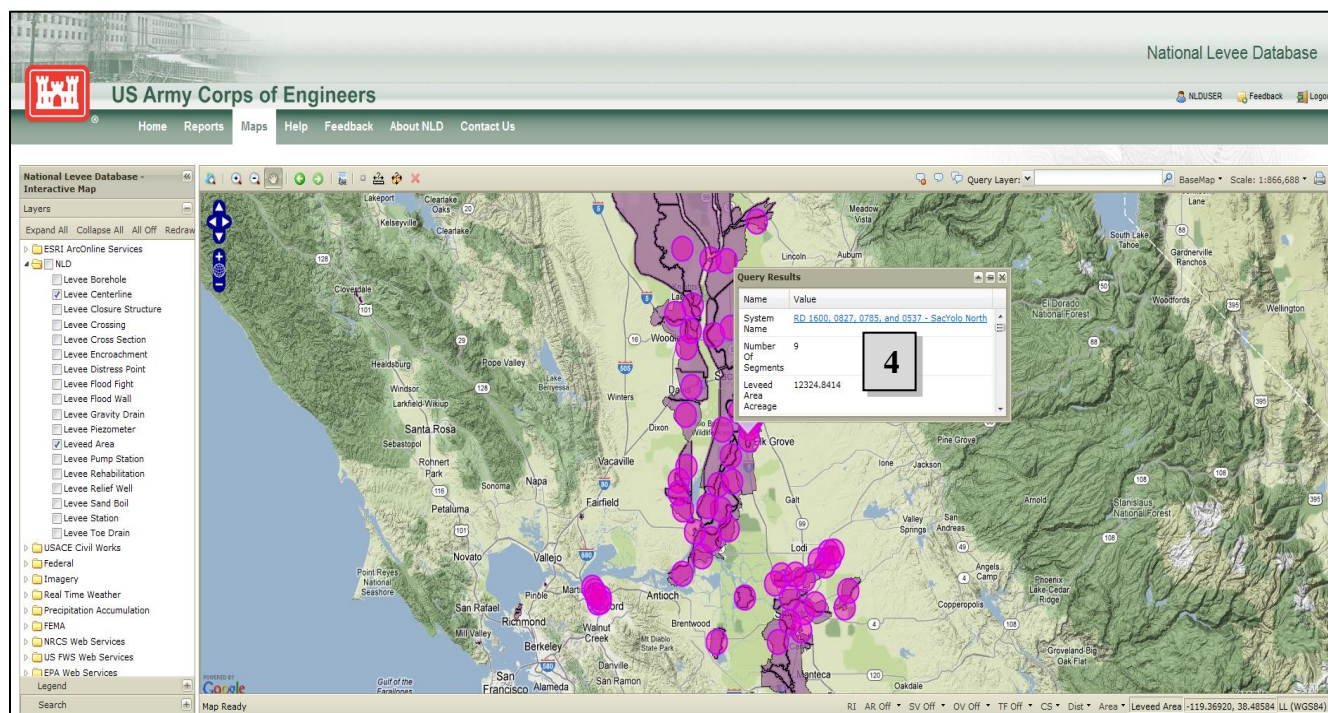


Figure 6.7-2: Popup Query Results

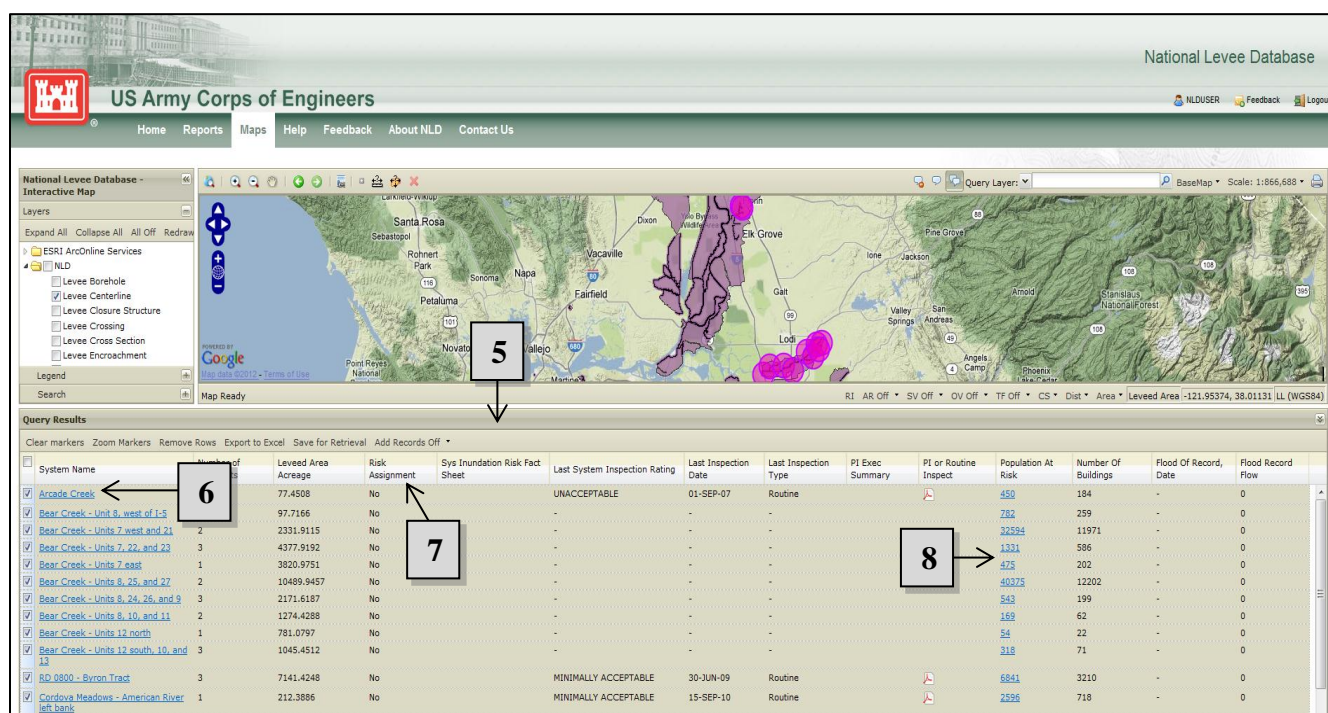


Figure 6.7-3: Table Query Results

6. Click on any of the System Name links to navigate to the System Detail report for the selected system
7. Click on any “Yes” values in the Risk Assignment column to navigate to the Detailed Risk Report for the selected system
8. Click on any of the values in the Population at Risk links to navigate to a pre-filtered Leveed Area Consequence Assessment Report for the selected system

6.8 Additional Map Tools



Figure 6.8-1: Additional Map Tools

1. Get Address at Point Click

To use the ‘Get Address at Point Click’ tool, click the icon in the Map navigation toolbar; the cursor will be replaced with a crosshair surrounded by a circle. Click on the map, and an Address Results dialog box will display with information about the selected location.

2. Get Elevation Profile

The ‘Get Elevation Profile’ tool provides a charted profile of the elevation of the line drawn on the map. Select the tool in the Map navigation toolbar; the cursor will be a crosshair surrounded by a circle. Click on the map to start drawing a line. Single click to add a point on the line, and double click to stop drawing the line and view the profile in a dialog box.

3. Distance / Area Measurements

The distance and area tools provide the capability to measure area and distance. To change the units the distance or area will be returned in, select the ‘Dist’ or ‘Area’ menus from the bottom of the map toolbar. Select the Measure Area icon or the Distance icon from the toolbar along the top of the map. Click on the map to begin

digitizing. The line or polygon will define the area that is measured. Once complete, double click. The area and distance box will populate the measurement results.

4. Clear Current Measures

Click the 'Clear Current Measures' icon to clear any measurements from the map in order to generate another measurement.

7. Feedback

7.1 Submit Feedback

The feedback function allows you to submit feedback on any screen within the tool. The purpose of the feedback function is to enable all users to provide instantaneous input about the functionality of the application on of any given screen.

The feedback function can be used:

- When there is an issue with the way the screen should work (e.g. “Nothing happened when I clicked on the Submit button.”)
- To make a suggestion for functionality in future versions of the tool (e.g. “It would be beneficial to have a field on this screen displaying the date that the document was reviewed.”)

The page numbers are located on the bottom of each page (screen) and unique for each page. Page numbers are helpful to the NLD team to better relate feedback to a specific screen within the tool. As a result, it is recommended to provide a Page number when feedback is provided.

To provide feedback about any portion of the NLD:

1. Click the “Feedback” link in the upper right corner

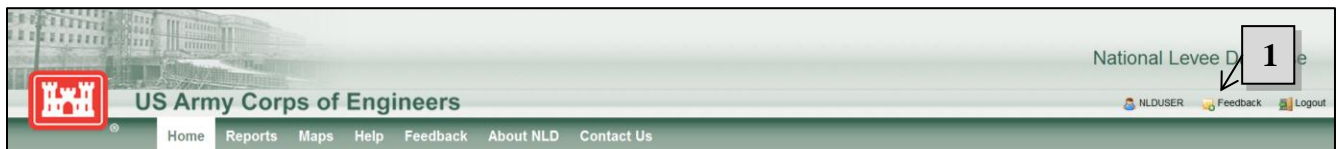


Figure 7.1-1: Feedback

To provide feedback about any portion of the NLD:

1. Click the “Feedback” link in the upper right corner

The screenshot shows the National Levee Database (NLD) website. The header includes the US Army Corps of Engineers logo and navigation links: Home, Reports, Maps, Help, Feedback, About NLD, and Contact Us. The main content area features a 'Welcome to the National Levee Database' message, a list of available reports, and a 'Provide Feedback' form. The form is a popup window with the following fields: Name, Email, Page (set to 1), and a large text area for Comments. A 'Submit' button is located at the bottom right of the form. A red box highlights a note: 'Please Note: The NLD currently contains the majority of levees not contain all levees located in the United States.' A blue box highlights the 'Submit' button. The background of the website shows a map of the United States with levee locations marked.

Figure 7.1-2: Provide Feedback Form

2. This will trigger a popup to display where you can enter your name, email, and a description up to 2,000 characters
3. When you click the “Submit” button, your feedback will be recorded

Appendix A – List of Acronyms

ASDSO	Association of State Dam Safety Officials
CRREL	Cold Regions Research and Engineering Laboratory
DoD	Department of Defense
DRG	Digital Raster Graphics
EM	Engineering Manual
ERDC	Engineer Research and Development Center
FC	Flood Control
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
GIS	Geographic Information Systems
HQUSACE	Headquarters, U.S. Army Corps of Engineers
IEI	Initial Eligibility Inspection
NAFSMA	National Association of Flood & Stormwater Management Agencies
NDA	Non-Disclosure Agreement
NLD	National Levee Database
NMAS	National Map Accuracy Standards
NOAA	National Oceanic and Atmospheric Administration
PAL	Provisionally Accredited Levee
PDT	Project Delivery Team
PGDB	Personal Geodatabase
RIP	Rehabilitation and Inspection Program
RS/GIS	Remote Sensing/GIS Center
USACE	United States Army Corps of Engineers
USGS	United States Geologic Survey
VPN	Virtual Private Network